



THE FUTURE OF TECH  
IS NOT ABOUT WHAT  
OR HOW  
BUT WHO.

**RESILIENT CODERS ECONOMIC IMPACT REPORT 2019**







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Thanks to Saadia Sumrall & Ellie Nguyen for all of the photos of people.  
Thanks to Andy Laub for the photo of the Marriott Custom House clock tower.



To our friends and allies,

When I sat down to write last year's version of this letter, we were peering out over the horizon with an audacious goal for 2019: we wanted demand for our students to outstrip supply. We needed to be flooded with good, full-time and salaried job offers before expanding the organization to meet that demand. Resilient Coders will only grow when it can do so equitably, and **that means high-growth, automation-resilient jobs for our graduates, and nothing less.**

**We smashed that goal.** Of the first two cohorts, nearly all of our graduates found a job within weeks of Demo Day, which is our showcase event at which our students present their work to employers. This was the year that we started getting job offers even \*before\* Demo Day, with several grads getting more than one. Our average salary remained solidly in the \$90,000 range, with our median at \$104,000.

From this position of strength, we've doubled down and invested in the program. We've hired a second Expert in Residence, to support our students' learning. Our landlord, the CIC, has heard our call and has scaled their sponsorship to match our vision. We've moved from one classroom at the Boston CIC to a bigger one in Cambridge. And we've lengthened and strengthened the bootcamp itself, from fifteen weeks of paid learning to twenty.

The story's not yet written. We've hit the ball out of the park but haven't yet won the game, and 2020 already promises its own set of challenges. The year began with a hiring freeze and layoffs at our biggest employer partner. And then COVID-19 hit. We're all contending with one of the biggest global pandemics in recorded history, and the ensuing economic fallout.

We have reason to be optimistic through turbulent times. Resilient Coders is now stronger than it has ever been. Our 2020 grads will be the most prepared we've ever had. And I have the privilege of spending every day with the greatest teammates in the world, each of whom is personally committed to matching our students' sense of urgency. We see every day as a renewed opportunity to be resilient. It's a gift, and we accept.

One of our 2019 students wore a shirt on which were written these words: *I am my ancestors' wildest dreams.* This, to us, is worthy of every last drop of sweat that we've shed (and there have been gallons). We'll take that fight. And once again, I invite you to join us in this fight as well. There's room in our house for everyone. Let's all of us Be Resilient.

Onward.  


David Delmar Senties  
Founder, Executive Director  
Resilient Coders  
david@resilientcoders.org



*Vonds, an alum of the bootcamp, wins the “git commit” award for his dedicated mentorship. Today, he codes at Salesforce.*



## ***Economic Empowerment***

We live in the city with the greatest income disparities in the entire country. And it's racialized. The median household net worth of a white family in Greater Boston is \$247,500. The median household net worth of a black family is \$8. Not \$8,000. Eight dollars.

We need to ask ourselves as a society whether this imbalance of power is legitimately earned, as is a common narrative. That's to say: Are white people working thirty one thousand times harder than black people? Or is there a deep injustice at work in our city?

The situation is about to get much worse. The Obama Administration, in its twilight, released a report asserting that 83% of jobs that pay \$20 or less are at risk of automation. These are the jobs on which too many people in our economically vulnerable neighborhoods depend. What happens to people -- and entire neighborhoods -- as those jobs continue disappearing?

Automation is not a new phenomenon in America. The difference today is that there exists no comprehensive effort to retrain those whose jobs are in jeopardy. College is more expensive than it has ever been. And too many employers continue to require Bachelor's degrees for jobs that do not require Bachelor's degrees to perform (including software engineering).

The Resilient Coders solution is part us, part employers: we will continue to identify and train talented individuals as software engineers. We need our corporate allies to identify and remove the barriers in their recruitment processes. It's about progressive training practices, and progressive employment practices. This is coalition-building.

*It's about progressive training practices, and progressive employment practices. This is coalition-building.*



# WHO'S HIRED IN 2019?

*Thank you to our 2019 partners!*



MASSACHUSETTS  
MEDICAL SOCIETY



# WHO ELSE HAS HIRED BEFORE?

6 River Systems  
Accenture  
Bison  
Boston Public Schools  
Boston Transportation  
Boston University  
Carney Hospital  
City of Boston  
Clarks  
Cogito  
Colaberry  
Covered Security  
Curriculum Associates

Data Collective  
Digitas LBi  
Everquote  
Experian  
FE International  
Fidelity  
Follain  
Formlabs  
Fresh Tilled Soil  
General Assembly  
Gravyty  
Grid Unity  
Hill Holliday

Homesite Insurance  
Houghton Mifflin  
Harcourt  
Hublogix  
Hubspot  
Latitude Inc.  
Lendbuzz  
Mavrck  
Mass General Hospital  
Microsoft  
Nanigans  
O'Reilly Media  
Partners Healthcare

Privy  
RStudio  
Sapient Razorfish  
Simply Business  
The Boston Globe  
The Grommet  
The Unitarian  
Universalist Church  
Veson  
Viasat  
Wellington Management  
Wistia

Fit  
Foodie

*Vanessa presents her work at Demo Day.  
Today, she is coding at Wayfair.*

## THE METRICS





# LET'S DO THE MATH ON THE ROI

*This is transformative change*

ANNUAL GROSS  
INCOME OF OUR  
2019 GRADS...



**BEFORE RC**



**AFTER RC**

**85%**

**OF 2019 GRADS FOUND JOBS,  
WITHIN ABOUT...**

**1mo.**

**AVERAGE DURATION OF JOB SEARCH**

**\$98K**

**AVERAGE SALARY**

Our alumni report that, early on in their new careers, 10% of their net income goes towards reimbursing debts or loans and 14% goes to supporting relatives. Financial wellness means taking care of yourself, your family, and then your community.

So, how does the economic empowerment of an individual lead to the economic empowerment of a community? Here are alumni expenditures, specifically in their majority-minority neighborhoods:

**\$3,101,270 BEFORE RC**

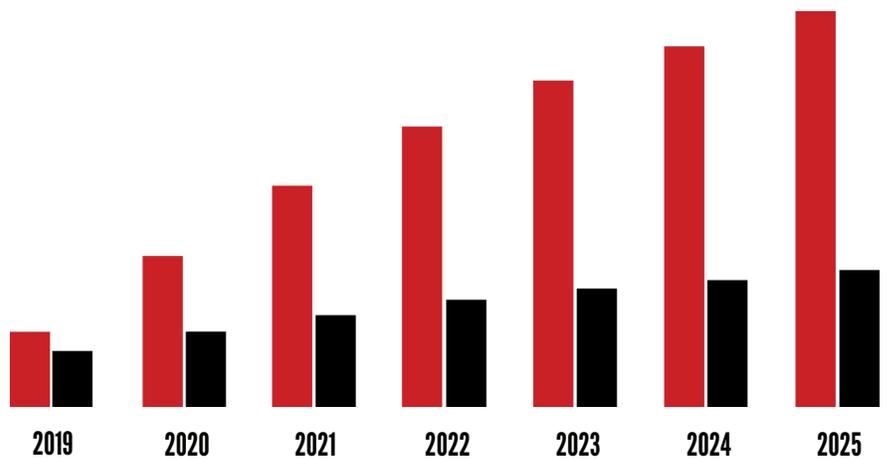
**\$7,787,977 AFTER RC**



# RESILIENT CODERS PROJECTIONS

## Total projected annual salaries per year before and after Resilient Coders 2019-2025<sup>1</sup>

By 2025, we will have put more than 38 million dollars into the hands of black and brown young adults.



<b>TOTAL POST-RESILIENT SALARIES</b>	<b>\$2,669,387</b>	<b>\$5,367,064</b>	<b>\$7,817,374</b>	<b>\$9,836,429</b>	<b>\$11,500,131</b>	<b>\$12,871,021</b>	<b>\$14,000,635</b>
<b>TOTAL SALARIES IN A WORLD WITHOUT RESILIENT</b>	<b>\$2,000,000</b>	<b>\$2,719,429</b>	<b>\$3,312,238</b>	<b>\$3,800,712</b>	<b>\$4,203,216</b>	<b>\$4,534,878</b>	<b>\$4,808,168</b>

This is a drastic change in the lives of our coders. If we extrapolate to the level of the community, the impact is even more compelling. Indeed, 47% of graduates who were employed in 2019 lived in one of Greater Boston’s majority-minority neighborhoods.<sup>2</sup> If we continue on this trajectory, planning conservatively, **we expect to inject an additional \$4.6 million into black and brown neighborhoods and cities by 2025.**<sup>3</sup>

1. For our projections, we assume the following: (1) a 3% annual salary increase, (2) 80% total retention rate, (3) 30 people placed per year, and (4) that those who remain employed work the whole year.  
 2. Based on 2016 numbers from the Joint Center for Housing Studies of Harvard University, these include Chelsea, Dorchester, East Boston, Everett, Lynn, Malden, Mattapan, Randolph and Roxbury.  
 Source: <https://www.jchs.harvard.edu/boston-map#/boston-map/create-map>  
 3. Based on survey responses. Alumni report spending about 14% on relatives and their larger community, and about 12% on local businesses.



# EFFECTS ON THE ECONOMY

*How much is this worth to Massachusetts?*

**\$6,103,955**  
*Our value added in 2019*

We filled 30 positions in 2019<sup>4</sup>, which represents more than \$6 million dollars of value added to the Massachusetts economy.<sup>5</sup> With each placement, we are actively participating in the local economy and driving value for local employers. According to the Massachusetts Department of Higher Education, “the state’s public higher educational institutions would need to double annual computer science and IT graduates to meet industry demand.” It is therefore imperative that we develop “postsecondary skill development options that can evolve and scale more rapidly than traditional higher education programs.”<sup>6</sup>

4. This excludes people who graduated in December 2019 since they started working in 2020

5. We calculated value added by dividing the share of tech’s contribution to Massachusetts 2018 Gross Domestic Product by the number of tech jobs in Massachusetts in 2018 (*The State of Massachusetts’ Tech Economy 2019 Report*, Mass Technology Leadership Council). This is analog to companies’ cost of vacancy, which is typically calculated according to the following formula: Annual revenue from tech companies / # employees in tech companies / 220 working days (x1, x2, x3 multiplier effect).

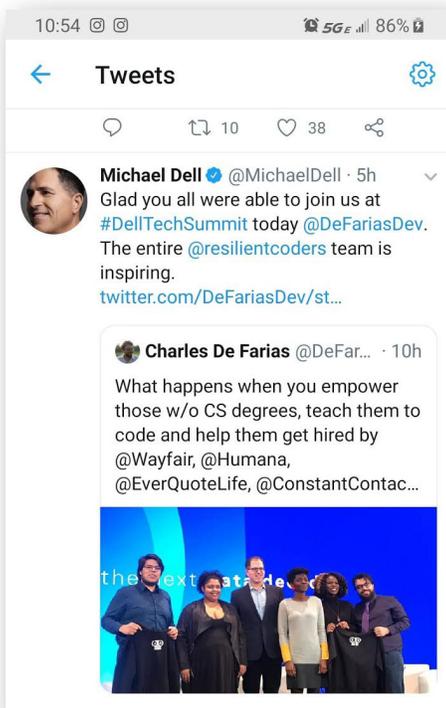
<https://www.venturi-group.com/price-vacancy-unfilled-positions-costing-business/>

6. Both quotes are also from *The State of Massachusetts’ Tech Economy 2019 Report*, Mass Technology Leadership Council

*Mikey presents his work at Demo Day. Today, Mikey is coding at the Broad Institute.*

## **RISE OF THE RESILIENT ALUMNI**





### ***Dell Tech Summit***

That's Michael Dell, founder of Dell Technologies, standing with a group of our alumni and family. This crew had just won a hackathon, sponsored by Dell. So Marco, Dunia, Kaia, Taye, and Charles were flown to Austin for Dell's All Hands meeting, at which they were introduced and celebrated. Sharing the stage and mugging for the camera as always are the Skull & Keyboard.

### ***Mayor Walsh makes an appeal***

Fresh off the plane from Austin, our alumna Kaia (above) was celebrated a second time. She and her classmate Raymond Ortega were mentioned by name by Mayor Walsh during his annual address to the Chamber of Commerce. At a hotel ballroom filled with members of Boston's biggest employers, the Mayor urged the assembled leaders to hire talent born and bred within our city limits. Talented young people like Kaia and Raymond, he says, are the future of Boston tech. We couldn't agree more.



## MEET TAYE

*Before graduating, I received two job offers, and accepted Constant Contact. I love my job.*

**I am a dreamer.** I have always been, and I always had big aspirations. One of them was to own a successful video game company, which is why four years ago I decided to go to college for video game development. I found myself bouncing around three different colleges in two years. What I learned was that college is too expensive, too long, and the returns are too tenuous for it to be the best option for me and for my struggling family. But I learned something else in that time as well: I am a programmer.

After dropping out, I got a few part-time jobs and started researching how to become a self-taught programmer. It was not easy. I took some courses online, but had to spend too much of my time working to really bring my full self to my studies. At any given time I had at least two low-paying jobs with no benefits, no security, unpredictable and long hours, with no potential for professional growth.

My parents are Jamaican immigrants who believed strongly that college is the only path to prosperity. To them, my search for alternate ways to learn to code seemed like a wild goose chase. But I had one goal in mind: I was going to be a programmer. I was determined.



During my search, I stumbled across Resilient Coders. I was in awe, and honestly, in disbelief. Resilient Coders pays a biweekly stipend that was more than what I was getting paid. The only way to apply to the program was to attend their recruitment hackathons, and without a doubt, I signed up for the women and nonbinary hackathon. I went. And shortly thereafter, I was accepted into the bootcamp.

RC kept me humble. Tardiness, incomplete or less-than-perfect output, and failure to build your professional network are all ways you could get dismissed from the program. I struggled to network but I excelled in learning and applying the material. So whenever I helped my peers get their projects done and understand the material, in return they helped me build my connections.

Before graduating, I received two job offers and accepted Constant Contact. I love my job. Every day I learn something new and meet interesting and quirky people like myself. I've never felt so fulfilled in a job before. And it has brought me stability and independence. Even my parents feel a little at ease.

I've kept exploring. I attended ETHBoston where I learned how to develop on Ethereum. A couple of months later, I was one of five RC engineers who participated and won the HubWeek Dell PolicyHack, proposing a blockchain solution. (*see page 10*)

Resilient Coders is more than a coding bootcamp. It's a movement. It's a community of black and brown individuals who support one another. Most important of all, RC is an organization that symbolizes a goal: liberation for people of color. It is tackling the racial wealth gap with an equity and community mindset while producing exceptional software engineering talent.

*Resilient Coders is more than a coding bootcamp. It's a movement. It's a community of black and brown individuals who support one another.*

*Taye Hubbert. Class of Spring 2019*

*Kaniah presents her work at Demo Day. Today she's coding at Wayfair.*



*Kaniah Dunn*

*Let's Stay Connected*



Scan the QR code to find me on LinkedIn or follow me on twitter at

SCAN ME



# PROGRAM

*Longest and strongest it has ever been*

We invest heavily in general object oriented programming principles, with Javascript as the predominant vehicle. By the time they graduate, students will have worked with simple and complex APIs. They will have worked with vanilla javascript, Node, and React, as well as MongoDB, and Postgresql. They're conducting unit tests, and sprinting in teams. The program is rigorous. We dismiss those who are not performing at the level at which we need them to be. It's a graduation requirement that students build at least one fully responsive full-stack application on their own, using the tools of their choosing. This is above and beyond their rigorous coursework. At Resilient Coders, **only the top performers graduate**. We've been accused of being the "Navy SEALS of coding bootcamps." For people of color breaking into tech, Navy SEALS is baseline.



Demo Day gives our prospective employers a sense for our graduates' aptitudes. For his Demo Day project, Anthony Salmeron developed a scientific information sharing platform that lets users freely distribute articles and accompanying pictures. It leverages the Azure cloud ecosystem to store all its content as well as using its machine learning capabilities to help with categorization of its files. User visitation logs and information are tracked to help with customizing the experience for every user. The core technologies used are EJS, CSS, JS, Node.js, Express, MongoDB, Azure Storage Blobs, Azure Cognitive Services, and ML5.js. Today, Anthony is a software engineer at Athenahealth.



# OUR TEAM

*Who made it happen in 2019*

## *Board of Directors*

Dunia Goncalves  
Web Developer, Everquote  
Resilient Coders alumna

David Mendels  
Former CEO. Multiple Boards

Susan Benford  
The Philanthropy Connection

Katie Stebbins  
VP Economic Development  
University of Massachusetts

Ester Peña  
VP, Software Engineering  
Travelers Insurance

## *Staff*

David Delmar Sentías  
Founder and Executive Director  
david@resilientcoders.org

Leon Noel  
Managing Director of Engineering  
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Rouguiatou Diallo  
Chief of Staff  
rougui@resilientcoders.org

Stephanie Castaños  
Relationships Manager  
stephanie@resilientcoders.org

Nick De Jesus  
Expert in Residence  
nick@resilientcoders.org

Alex Soto (as of 2020)  
Expert in Residence  
alex@resilientcoders.org

Muigai Unaka (2016 - 2019)  
Role: Pretty much everything.  
Thank you Muigai, for everything you've  
been to this community.



# SUPPORTERS THROUGH 2019

*Individuals, corporations, and foundations*

## **\$100,000+**

Cambridge Innovation Center  
Cummings Foundation\*  
JPMorgan Chase Foundation\*  
Boston Private Industry Council/  
Senator Kenneth J. Donnelly  
Workforce Success Grant (Workforce  
Competitiveness Trust Fund FY'19  
Appropriation)\*

## **\$50,000+**

John Hancock  
The Amelia Peabody Foundation  
The Boston Foundation  
TUGG

## **\$25,000+**

Cabot Family Charitable Trust  
Carbonite  
David Mendels & Leila Yassa  
Lewis Family Foundation  
Liberty Mutual  
State Street Foundation  
United Way of Massachusetts Bay and  
Merrimack Valley

## **\$10,000+**

Bank of America  
Belden and Pamela Daniels  
Chris Baldwin  
Dave Swindell  
Debra Smith Knez  
James M and Margaret V Stine  
Foundation  
National Grid

Susan and Ted Benford  
Santander Bank  
Steve Vinter

## **\$5,000+**

CarGurus  
Chris and David Letts  
Fish Family Foundation  
Highland Street Foundation  
Jerome S & grace H Murray Foundation  
Jonathan Kiparsky  
Juliana Castedo and Brendan Schwartz  
Leo O'Donnell  
Massachusetts Medical Society  
SIM Boston  
1434 Foundation, Inc.

## **\$1,000+**

Alex Goldstein  
Adriane Musgrave and Brian Rogan  
Andrew Knez  
Arthur Rabe  
Bob Mason  
Craig Dickson  
David and Elly Newbower  
Eric Busse  
Eversource Energy Foundation, Inc.  
Intex  
Jerome S & Grace H Murray Foundation  
Jessica Knez  
Lisa Gordon and John Treadway  
Lynda and Jeff Bussgang  
Matt DeSutter  
Morisson and Foerster Foundation  
Raquel Saxe  
Rob Howard

Sam Voigt  
Seth Wylie  
Veson Nautical

## **\$5,000+**

Antony Donovan  
Boston Estate Planning Council  
Bob Gregor  
Cara McGrath  
Catherine Owens  
Eric Klotch  
Mario Gabelli Fund  
Matthew Fine  
Mike and Mel Foundation  
Rhea and Martin Reiss  
Thomas Ortega II

## **Grassroots**

Adam Friedman  
Adam Shapiro  
Alaric  
Amrutha Rajiv  
Amy Newell  
Amy Wood  
Ann Solberg  
Anne Shaner  
Anonymous (15)  
Anthony Beckford  
Alyssa Hackett  
Becky Kung  
Boris Efroimskiy  
Bridget Akinc  
Charlotte Hyland Web Design  
Cheryl Odesky  
Christine Bath  
Christy Barbee and Tom Spencer

\*Multi-year grants



Collective  
Cynthia Andre  
David Norcott  
David Porter  
Diana Barnett  
Dominique Hurley  
Dunia Goncalves  
Emily Mar  
Erica Mendez  
Ezra Fishman  
Filip Tyczynski  
Francisco Rafart  
Geoffrey Lawton  
George Boyar  
Hilary Detmold & Dan Ryan  
Jack Moberger  
Jason Lengstorf  
Jason Seeman  
Jazmine Coleman  
Jeannette Guillemain  
Jeff Simeon  
Jeffrey Chupp  
Jennifer Koonz

John Langton  
Jordan Pilat  
Julie Gittleman & Tom Mendelsohn  
Kara Hines  
Karina Lin  
Katrina Sylor  
Lauren Desforge  
Leonidas Kontothanassis  
Lex Miller  
Lily Barrett  
Louis DeScioli  
Matt Lavallee  
Matthew Bellantoni  
Michael Cashe  
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Shelley Hurwitz  
Standy Merizier  
Stephanie Sandler  
Steve Washington  
Sucherman Group in Honor of Derek Haswell  
Tom Dyer  
Trish Fontanilla  
Virginia Cole Partridge  
William Aguilera  
Zev Eisenberg





I have the immense privilege of having many people to thank.

Resilient Coders is predicated on a gamble that there exists a broad coalition of people, from all walks of life, who believe that we must build equitable pathways to prosperity, for the benefit of our entire civilization. Lila Watson, Aboriginal Australian artist and activist, lays this out beautifully: “If you have come here to help, you are wasting your time. If you have come here because your liberation is bound up with mine, let us work together.”

And we work together indeed. We owe a debt of gratitude to our **donors**. Without folks who put some skin in the game, and substantiate values with real impact, none of this works at all. We believe that economic inclusivity means paying people to learn. Our donors make this philosophy a reality.

I'd like to thank those progressive **employers** who hire for potential over pedigree. They understand that someone's ability to pay a college tuition has nothing to do with their talent. Brilliance has a way of shining through, doesn't it? Our employers' ability to see that brilliance is critical to the disruption of society's continued inherited wealth stratification.

We have the benefit of a robust community of **mentors**, who come to the classroom and work side by side with our students throughout their learning journey. Time is our most precious resource. It says a lot about a person where they choose to spend it.

Resilient Coders has an incredible **board** of superhumans. It's an intimate kitchen cabinet of people who operate with urgency, compassion, and authenticity. Their wisdom and their unwavering support make this program immeasurably stronger than it would be otherwise. Thank you, from the bottom of my heart, Katie, David, Susan, Dunia, and Ester.

**My team** is the Greatest Of All Time. Every single one of them is a fighter, and it's truly an honor to stand shoulder to shoulder with them every single day. Besides being incredible at what they do, they all make me better at what I do. Muigai, Leon, Stephanie, Rougui, Nick, and Alex: I'm humbled and inspired by you all.

The difference between an organization and a movement are the **alumni**. Leon tells all of our students: “Be Harriet Tubman. When you realize your own liberation, whatever that means to you, go back. Bring one more.” And they do. Without contract or written agreement, our alumni choose to return to Resilient Coders, and give their nights and weekends to the current students. They now comprise the lion's share of our mentor community. They also make up almost the entirety of our recruitment pipeline. They're bringing friends, family, and neighbors in the door, and guiding them through to completion. They have my deepest admiration. They are our “Why.” But more importantly, they are also our “With.” **Thank you all.** David.



**ONWARD**





*Lloyd presents his work at Demo Day. Today he's coding at Oxfam.*