

E_ALBANY CAN CODE_ALE
NY CAN CODE_ALBANY CAN
AN CODE_ALBANY CAN CODE
E_ALBANY CAN CODE_ALE
NY CAN CODE_ALBANY CAN
AN CODE_ALBANY CAN CODE
E_ALBANY CAN CODE_ALE



BROADWAY

ONE WAY

There's hidden talent
everywhere ...

What is AlbanyCanCode?

Established in 2016, AlbanyCanCode is a 501(c)3 non-profit that develops non-traditional talent and advocates for a vibrant, inclusive tech talent pipeline in our region. We design and deliver workforce training courses and hands-on K12 coding programs, in alignment with the needs of employers, educators, talent and the community in general.

CanCode: What We Do

Our mission is to:

- Shift the mindset about who can work in technology;
- Remove cultural and economic barriers to joining the tech workforce;
- Establish and promote pathways to tech careers throughout the region.



Coding Skills



Soft Skills



Job Skills



E_A
NY
AN
E_A
NY
AN
E_A

ALE
CAN
COD
ALE
CAN
COD
ALE

E_ALBANY CAN CODE_ALE



E_ALBANY CAN CODE_ALE



E_ALBANY CAN CODE_ALE



E_ALBANY CAN CODE_ALE

Workforce Development Classes



- 12-week classes prepare students for entry level tech jobs
- Small class sizes
- Instructors from the field know how the curriculum applies to job setting
- Tuition funding provided through WIOA, ACCES-VR, private funders
- Employers pay for staff to skill up employees
- Classroom culture of empowerment, we assume student success
- Program Managers as coaches, mentors & remove barriers

Course Catalogue:

- Front End Web Development
- JavaScript Fundamentals
- JavaScript Frameworks
- Automated Web Testing
- Python for Data Analytics
- SQL/ETL
- Salesforce Applications



ALBANY CAN CODE

How does it work?

We partner with community colleges and BOCES programs to deliver workforce training:

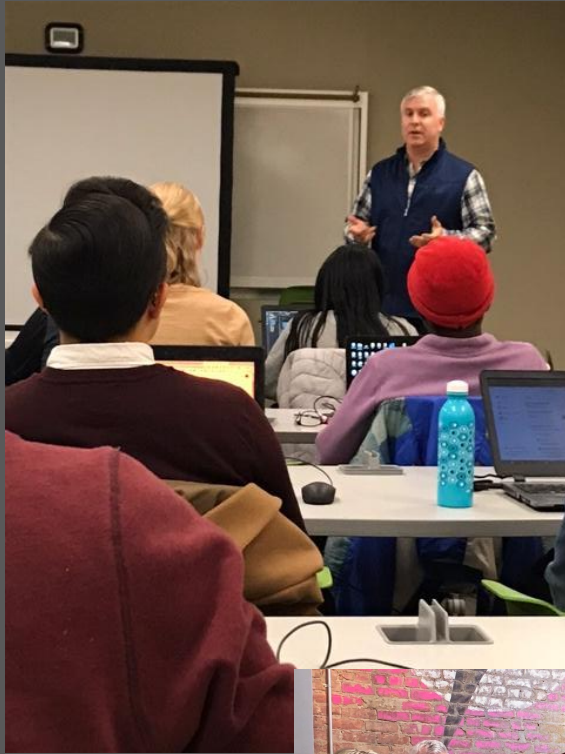
- Partner assists with marketing, provides classroom space, handles registration, and accepts tuition, including funds from WIOA, ACCES-VR, and other third party funders.
- ACC provides the instructors, TAs, and program managers who provide wrap around support to students, as well as career counseling and assistance with their job searches.
- Revenue sharing agreement between ACC and partner.
- In the Capital Region, we work with SUNY Schenectady, SUNY Adirondack, and Hudson Valley Community College, as well as Capital Region BOCES to offer our workforce development classes.
- Expansion into Hudson Valley region with first partner: SUNY Ulster



Community College Partners



How does it work?



Our **Employer Network** is a huge part of our success:

- Quarterly employer roundtable events to hear the needs of local employers and how they are changing.
- Employer driven curriculum ensures that we are teaching the skills employers need now
- We are able to be flexible and responsive to employer needs
- Network of over 50 companies, 25 who have been with us since our inception.



ALBANY CAN CODE

Student Outcomes

+\$17,000 Median Annual Salary Increase for Completers of 1 or more ACC Courses

Student Salary Changes from Before Enrollment to After Completion



As of 11/1/19

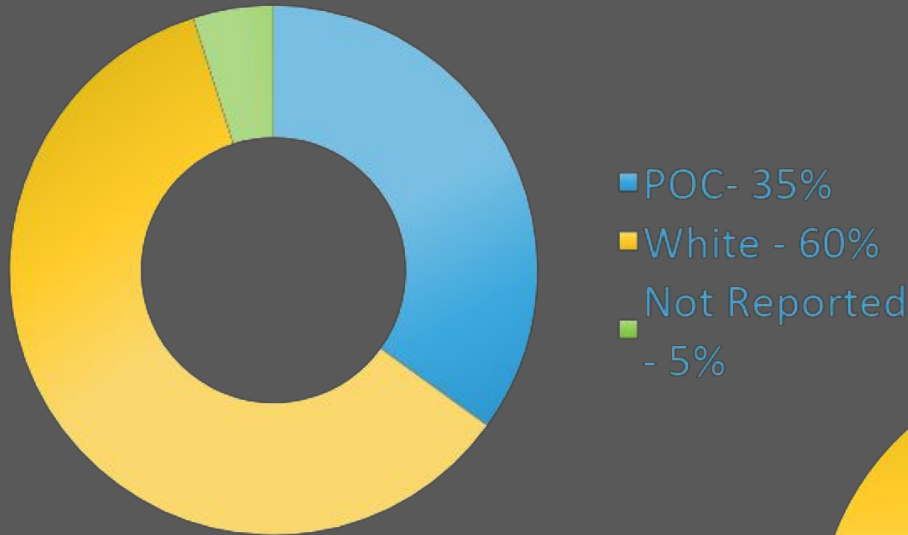
Student Outcomes

Median Wage Increase	
Women:	\$13,000
People of Color:	\$18,680
Veterans:	\$31,200
Previously unemployed	\$34,835
Under Median income initially	\$28,368

As of 11/1/19

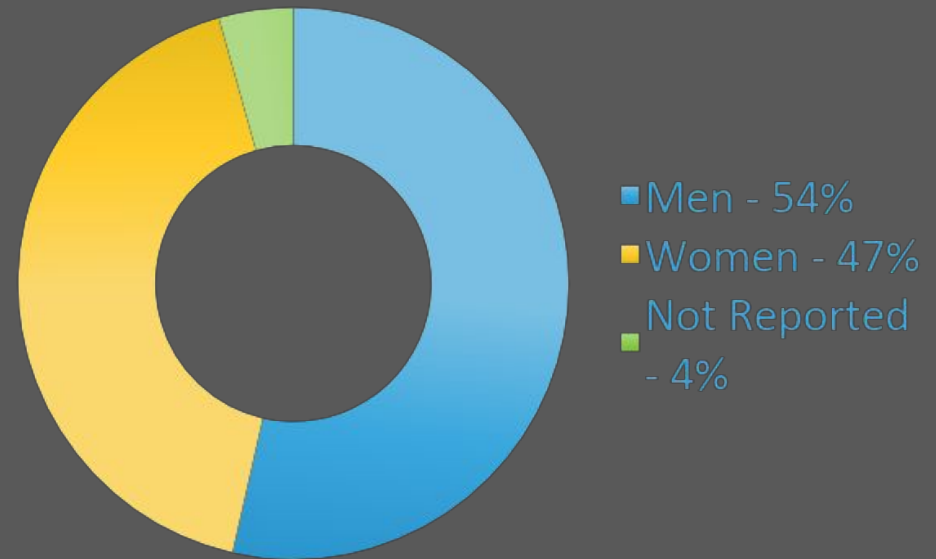
Student Demographics

Race/Ethnicity



Our goal is to bring more women, minorities, and veterans into our programs with each cohort.

Gender



As of 11/1/19

Economic Impact of AlbanyCanCode

- Women are still lagging behind their male counterparts but as a result of AlbanyCanCode's classes, they have seen substantial increases in income.
- Women of color had an average of \$18,691 in income increase, while white women had a \$13,444.50 increase in income.

Table: 3 - Income Change by Gender and Race

	White	Non-white
Male	\$15,695.25	\$28,694.17
Female	\$13,444.50	\$18,691

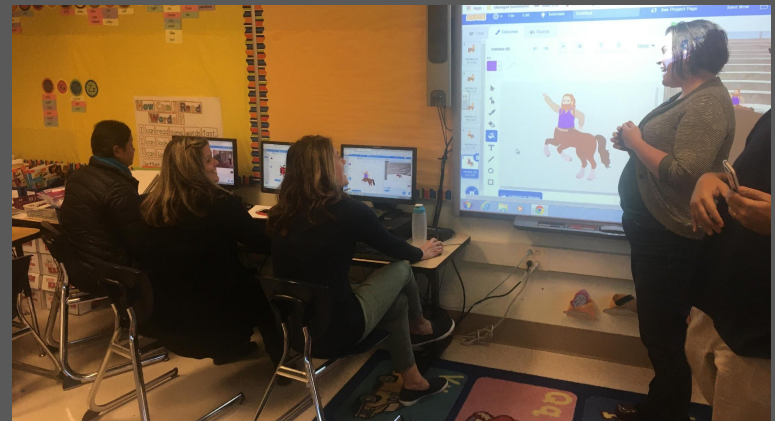
Lo, Manny. (2020) The Economic Impact of AlbanyCanCode: Understanding its impact on the labor market. Center for Undergraduate Research and Creative Activity (CURCA) at Siena College. pg.14

K-12 Programming

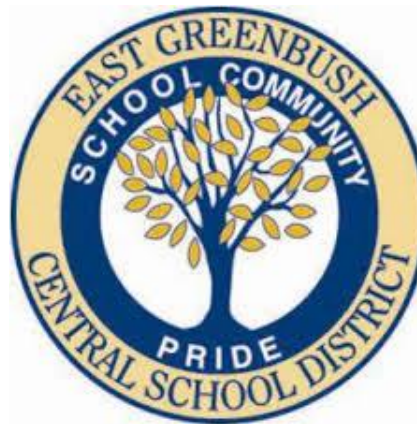
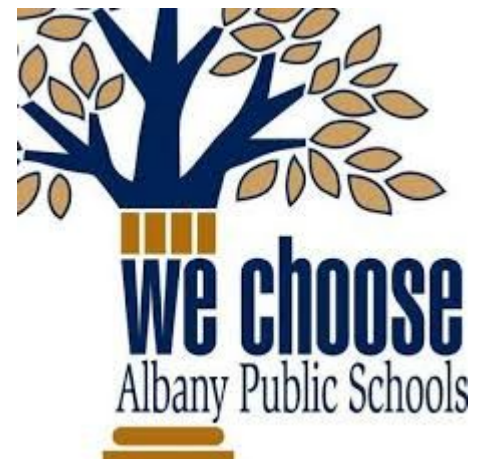


Our K-12 programming seeks to prepare the workforce of tomorrow by working with schools and BOCES programs

- Summer Camps
- Enrichment classes
- Professional Development



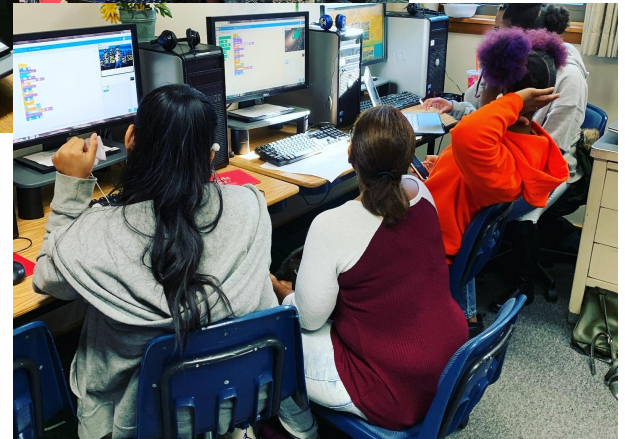
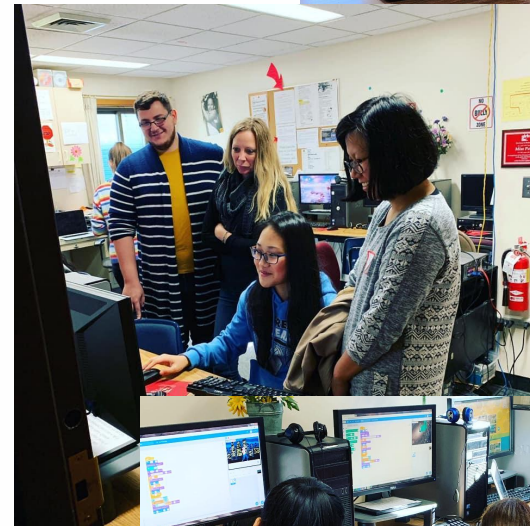
K-12 Partners



Community Programs

Our community programs reach into different communities to demystify tech terminology and show participants that they have the aptitude for a career in tech

- MomUp! Workshops
- CodeTalk Workshops
- Virtual Digital Literacy



New Landscape of Digital Literacy

- In an evolving economy, there is an urgent need for foundational digital skilling for all workers.
- 13% of overall workers have no digital literacy skills.
- Another 18% have limited skills.

“ For businesses to flourish in this rapidly transforming environment, they need reliable access to skilled workers, and strong, responsive public policies that facilitate upskilling for their incumbent ***workforce.*** ”

Bergson-Shilock, Amanda. “The New Landscape of Digital Literacy,” National Skills Coalition. pg. 2,4 (May 2020)
<https://m.nationalskillscoalition.org/resources/publications/file/New-Digital-Landscape-web.pdf>

Digital Skill Gap Across Industries

Selected industries ²⁴	Percentage of workers with no digital skills	Percentage of workers with limited digital skills	Combined percentage of workers with limited or no skills*
Construction, transportation and storage	22%	28%	50%
Retail, wholesale, and auto repair	14%	23%	37%
Hospitality and other services	18%	18%	36%
Manufacturing	16%	19%	35%
Administrative and support services; arts, entertainment and recreation	13%	22%	35%
Health and social work	12%	21%	33%
Finance, insurance, and real estate (FIRE)	6%	14%	19%*
Education	5%	11%	15%*

*NOTE: Numbers may not sum due to rounding.

Bergson-Shilock, Amanda. "The New Landscape of Digital Literacy," National Skills Coalition. pg. 8 (May 2020)
<https://m.nationalskillscoalition.org/resources/publications/file/New-Digital-Landscape-web.pdf>

Digital Skill Building

- Research has found that workers with limited skills are less likely to receive on-the-job training compared to their peers.
- In a PIAAC survey, PIAAC survey about on-the-job training, found nearly one in three (30 percent) workers with no digital skills had done so, as had 41 percent of workers with limited digital skills.
- Research suggests supporting increasing skills among adults with lower skill levels has a more powerful effect on per-capita Gross Domestic Product and labor productivity, compared to skill gain among adults who are higher in skill level.

Bergson-Shilock, Amanda. "The New Landscape of Digital Literacy," National Skills Coalition. pg. 13-14. (May 2020)

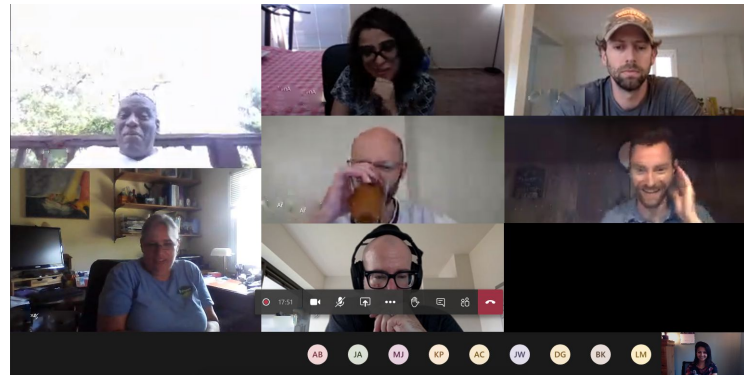
<https://m.nationalskillscoalition.org/resources/publications/file/New-Digital-Landscape-web.pdf>

Virtual Digital Literacy

- A twelve-week Digital Literacy class is offered, alongside our workforce programming classes delivered in partnership with local county OET offices and community partners.
- Our approach is hands-on and provides each student with 1:1 resources to solve problems as they arise at each student's own pace.
- Our community programs reach into different communities to demystify tech terminology and show participants that they have the aptitude for a career in tech

Counties we partner with?

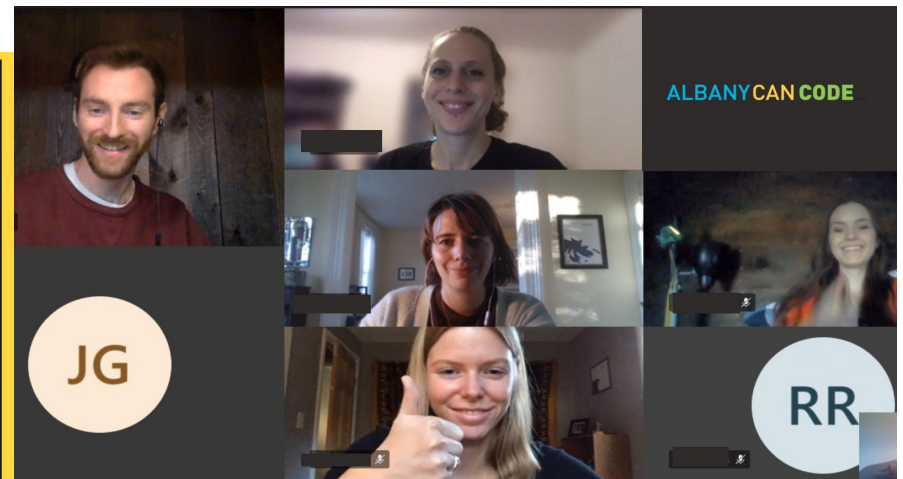
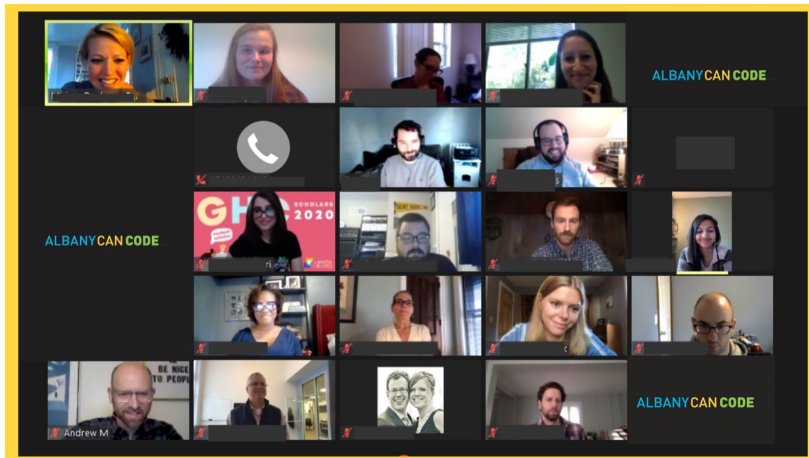
- Albany
- Ulster
- Saratoga
- Warren
- Rensselaer
- Schenectady
- Columbia / Greene
- Orange
- Dutchess



ALBANY CAN CODE.

Virtual Digital Literacy

- Students in CanCode's Digital Literacy courses have a wide range of experiences and competencies, ranging from those who have used a computer in some home or office setting, to those who have rarely used a computer and feel very nervous about doing so. This is majority.
- This class is intended to meet students wherever they are and help them achieve their own personal goals, whether that is entry into an CanCode workforce computer programming courses or other employment opportunities.



Curriculum

- Basic computer skills
 - file and folder structures
 - selecting, copying, pasting
 - typing and mouse/track pad usage
 - Web browsers
 - Microsoft suite of projects
 - Google Suite
 - Video conferencing
 - Email etiquette and usage
 - Resume creation
 - LinkedIn and web based job tools
- Laptops and internet access
 - Microsoft O365 license included for the duration of class.

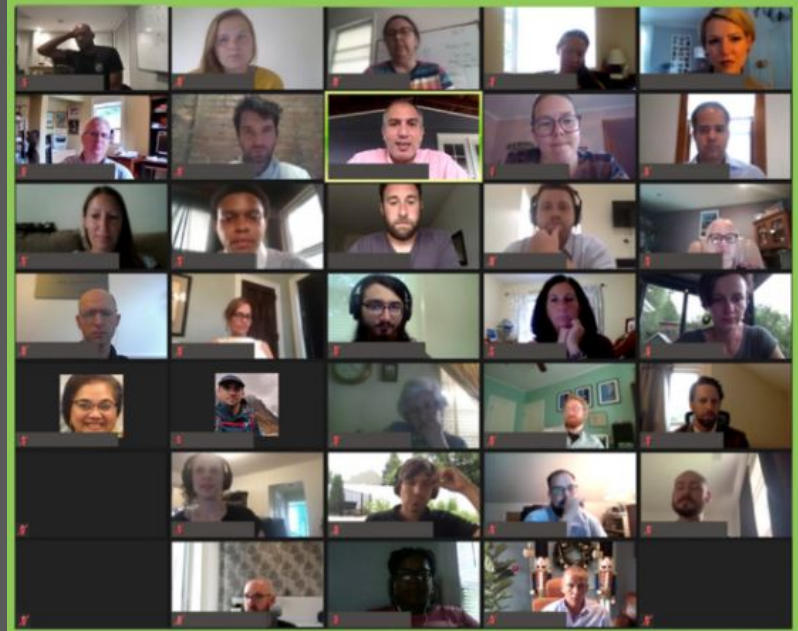


Virtual Digital Literacy

- Students who master these basic digital skills can move on to learn the basics of HTML, CSS, and JavaScript in preparation to take one of our workforce computer programming classes such as Front End Web Development or Automated Web Testing.
- Digital skills to find remote employment
- Assist children learning in a virtual setting

Course Catalogue:

- Front End Web Development
- JavaScript Fundamentals
- JavaScript Frameworks
- Automated Web & Security Testing
- Python for Data Analytics
- SQL/ETL
- Salesforce Applications
- Microsoft Azure & PowerApps

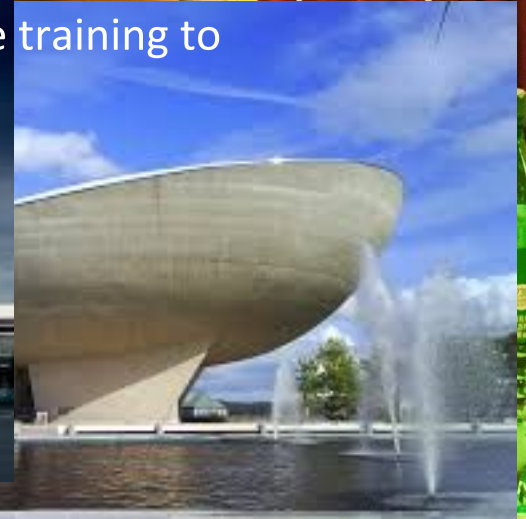


CAN CODE_

Your community can be a CanCode_ community.

a small city solution

Our model is perfect for smaller cities like Albany, Schenectady, and Troy, where employers are struggling to find candidates with the skills they need locally, and many local people do not have the training to take part in the economic growth of the region.

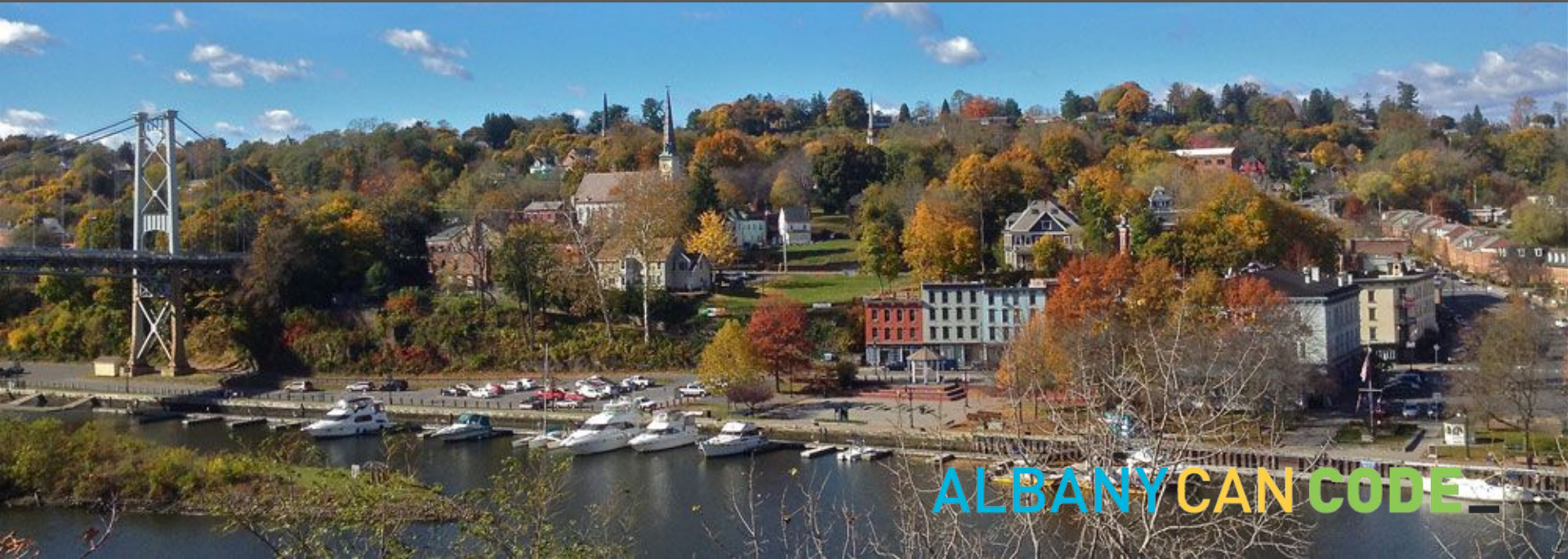


ALBANY CAN CODE_

Expansion

Over the past year, ACC has received calls from all over the state. We believe that the model we have developed in the Capital Region will be successful in small cities all over New York State and beyond.

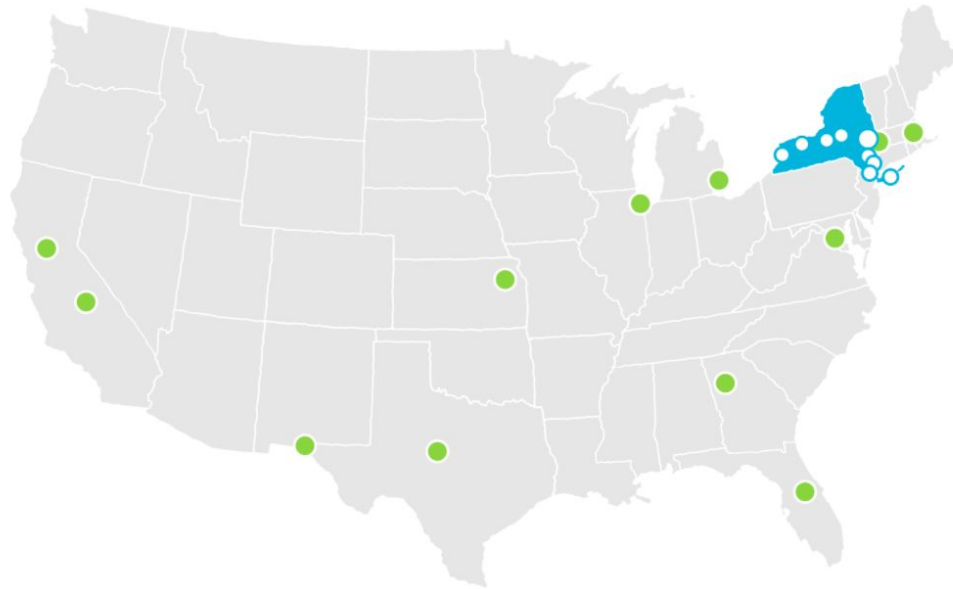
- We have selected the Mid-Hudson Valley as the first expansion region, beginning with Kingston and Ulster County then on to Poughkeepsie and Newburgh.
- First Employer Roundtable in Ulster County on November 12, 2019.
- Second expansion region will be Utica and the Mohawk Valley



ALBANY CAN CODE

CAN CODE_

Your community can be a CanCode_ community.



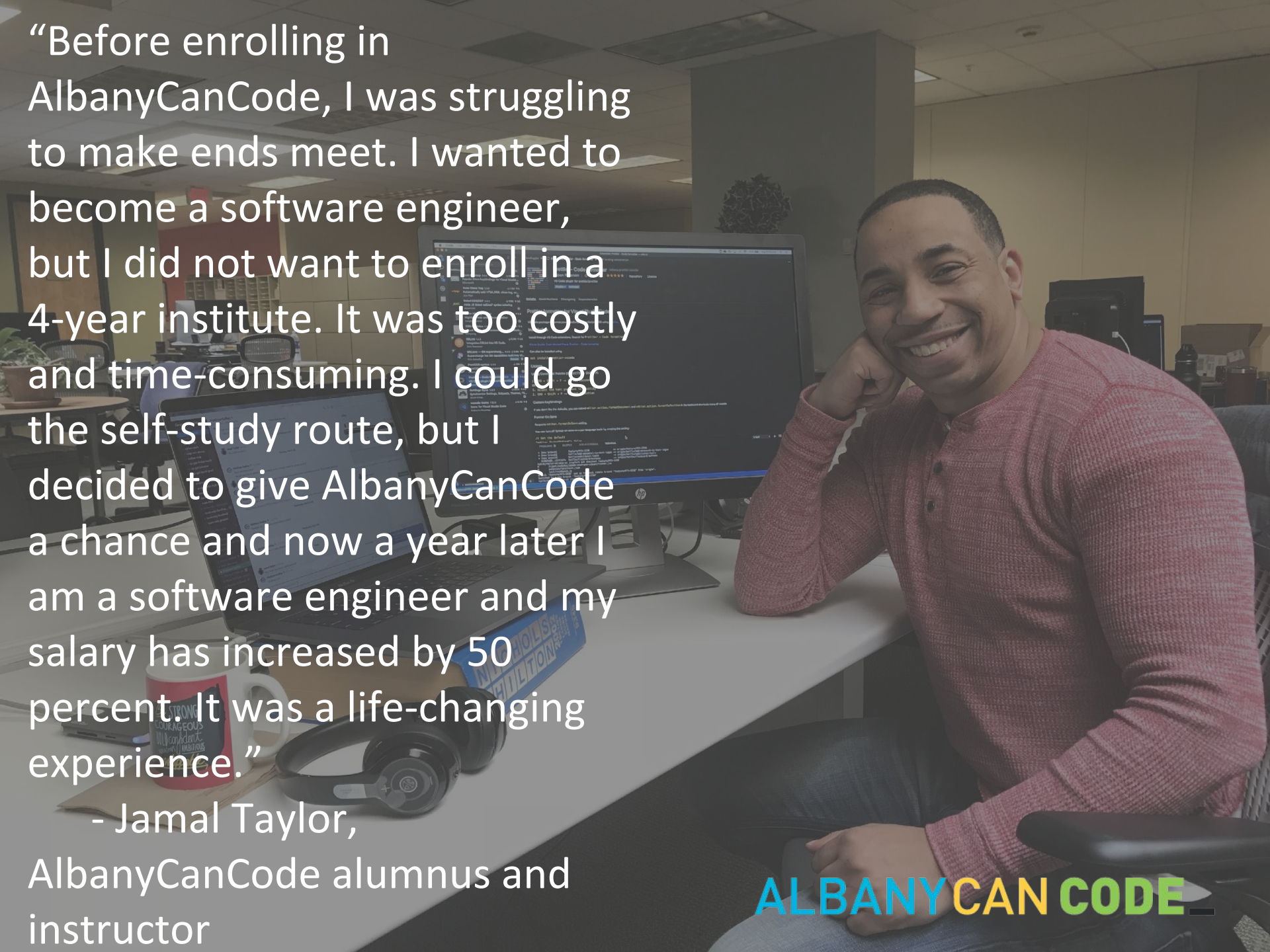
NY.CAN CODE_ ALBANY.CAN CODE_ KINGSTON.CAN CODE_ SARATOGA.CAN CODE_

ATLANTA.CAN CODE_ BOSTON.CAN CODE_ BUFFALO.CAN CODE_ CALIFORNIA.CAN CODE_ CHICAGO.CAN CODE_

DC.CAN CODE_ DETROIT.CAN CODE_ ELPASO.CAN CODE_ HUDSONVALLEY.CAN CODE_ LONGISLAND.CAN CODE_

NEWBURGH.CAN CODE_ ORLANDO.CAN CODE_ PITTSFIELD.CAN CODE_ ROCHESTER.CAN CODE_ SACRAMENTO.CAN CODE_

SYRACUSE.CAN CODE_ TEXAS.CAN CODE_ TOPEKA.CAN CODE_ UTICA.CAN CODE_

A man with short dark hair, wearing a pinkish-red long-sleeved shirt, is sitting at a desk in an office. He is smiling and resting his chin on his hand. In front of him is a laptop and a large monitor displaying code. On the desk, there is a red mug with a quote, a pair of black headphones, and a blue sign that says "MILTON". The background shows an office environment with other desks and computers.

“Before enrolling in AlbanyCanCode, I was struggling to make ends meet. I wanted to become a software engineer, but I did not want to enroll in a 4-year institute. It was too costly and time-consuming. I could go the self-study route, but I decided to give AlbanyCanCode a chance and now a year later I am a software engineer and my salary has increased by 50 percent. It was a life-changing experience.”

- Jamal Taylor,
AlbanyCanCode alumnus and
instructor

ALBANYCANCODE



ALBANY CAN CODE



E_ALBANY CAN CODE_ALE
NY CAN CODE ALBANY CAN
AN CODE AN CODE
E_ALB E_ALB
NY CAN NY CAN
AN CODE_ALBANY CAN CODE
E_ALBANY CAN CODE_ALE

SingularityU Czech Summit
6. 3. 2018

2. Predictive Analytics

Hod Lipson

The image is a screenshot of a presentation slide. At the top left, it says 'SingularityU Czech Summit' with a logo and the date '6. 3. 2018'. The slide is split into two main sections. On the left, a man in a dark suit is standing on a stage, gesturing with his hand. On the right, there is a photograph of a vegetable market stall with various fresh produce like tomatoes, onions, and carrots. Below the speaker's image, there is a decorative graphic of a dark blue and orange wave. At the bottom right of the slide, the name 'Hod Lipson' is written in white text.

Annmarie Lanese, Founder & CEO
annmarie@albanyancode.org
@AlbanyCanCode

www.AlbanyCanCode.org
info@albanyancode.org
www.CanCode.org

ALBANY CAN CODE _

