

One Summer Chicago 2018

Demonstration Project: Creating Pathways in Technology
Everyone Can Code Curriculum

November 20, 2018

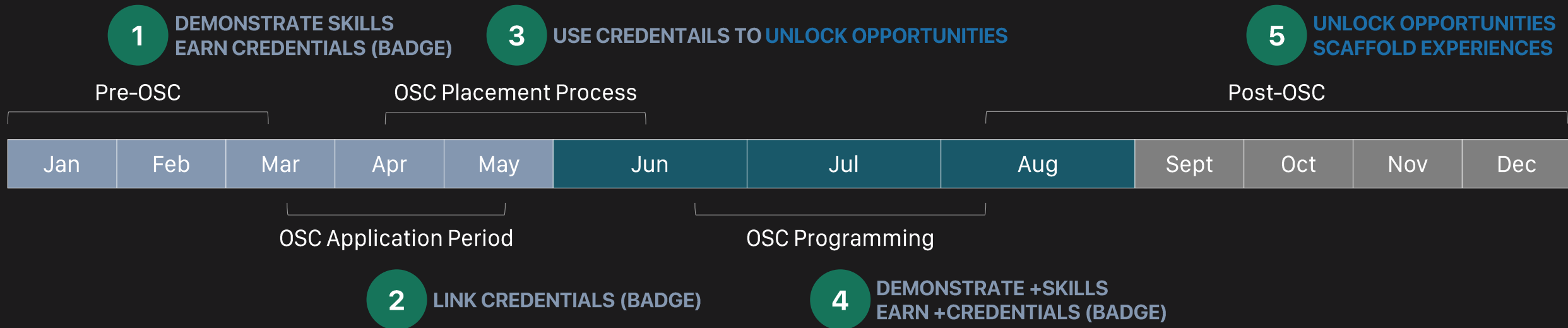
The Challenge

One Summer Chicago 2018: Demonstration Project

The Challenge

How can we collectively create meaningful pathways in technology for our youth to ... ?

Demonstrate Skills | Earn Credentials | Unlock Opportunities | Scaffold Experiences



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Coding Pathway – 2018 Targets

5 Locations
100 Participants

Focus on:
Austin
South Lawndale

Get Interested

Coding Clubs

Schools and/or community-based organizations host Swift Coding clubs to spark interest in technology.

10 Locations
200 Participants

Get Trained

Training Program

Skill Development.
(6 weeks | 120 hours)

18 Employers
50 Participants

Get Connected

Pre-Professional Internship

Employer mentors a small group of aspiring coders through project-based activities. (6 weeks)

Get Started

Professional Internship

Employer guides an aspiring coder through coding activities they would experience as a professional. (10 weeks)

Demonstrate Skills | Earn Credentials | Unlock Opportunities | Scaffold Experiences

The Goals

200 youth placed into the Swift Training Program

- At minimum 50 youth will be sourced from coding clubs in Austin and Little Village that earn a micro-credential (badge)
- Up to 150 youth will be sourced from the OSC application that expressed interest in coding

50 youth placed into a Pre-Professional Internship

- Candidates sourced from the pool of 100 youth that participated in the 2017 OSC Coding Program

KEY SUCCESS FACTORS

- Employer expectations are clearly outlined for participation
- Employer has a positive experience hosting pre-professional interns
- Employer to candidate skill mapping (hard and soft skills)
- Youth clearly understand their pathway in technology

DESIGN PRINCIPLES

- Control for Quality
- Design for Simplicity
- Create Currency / Honor Credentials

Badges

Integrating digital badging to award credentials for competencies demonstrated is a key component to the project to (1) keep track of learnings; and (2) scaffold experiences.



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Current Set of Badges

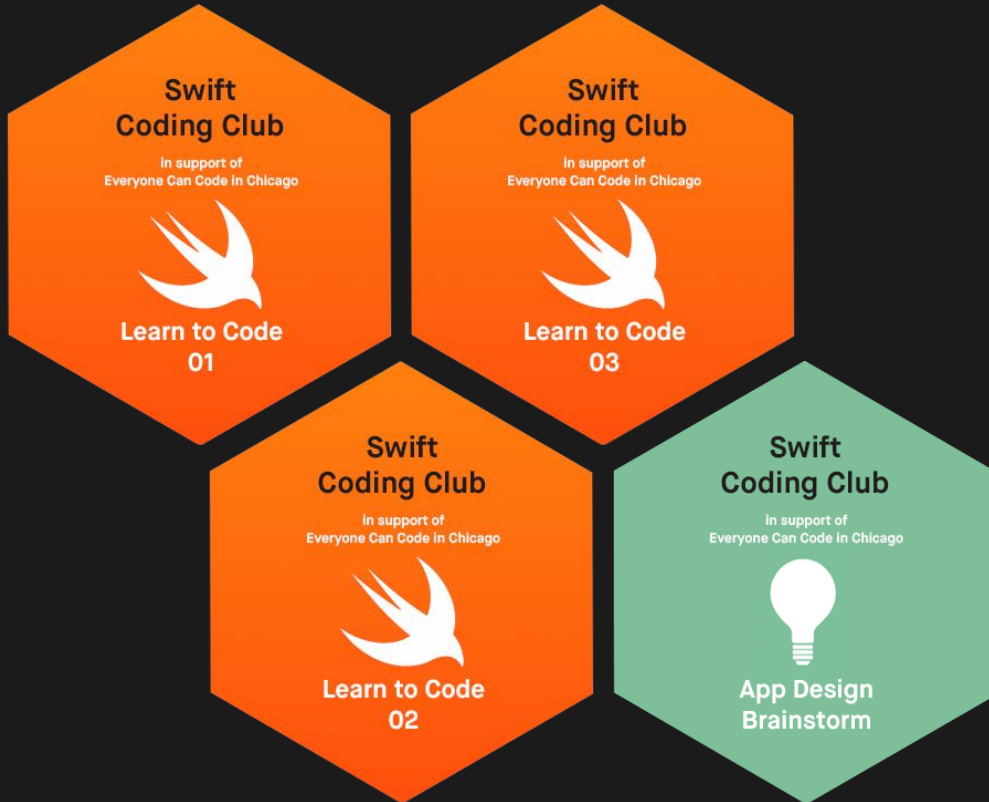


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Badges Demonstrating Interest

CODING CLUB

Swift Playgrounds on iPad



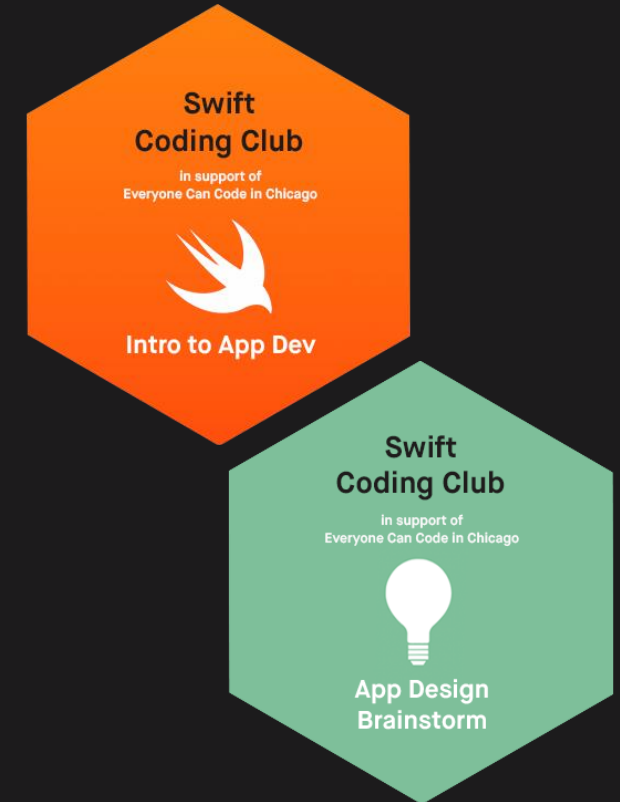
BOOT CAMP

Xcode on Mac



CODING CLUB

Xcode on Mac



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Leveling Up Badges

TRAINING PROGRAM

Xcode on Mac



PRE-PROFESSIONAL INTERNSHIP

Work-Based Learning



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Our Partners

COMMUNITY PARTNERS

- Austin Coming Together • coding club
- Central States SER • coding club
- Mind + Hand • coding club
- Open Center for the Arts • coding club
- Project Exploration • coding club
- Westside Health Authority • coding club

INITIATIVES

- Chicago STEM Pathways Co-Op • citywide STEM initiatives
- CS4All (Computer Science for All) • k12 graduation requirement
- Learn & Earn • program model; emphasis on apprenticeships
- One Summer Chicago • 2nd largest summer youth employment program
- Pro Path • inventory of training/apprenticeship programs

TECHNOLOGY

- LRNG • badge/micro-credentialing platform

LEADERS

- Apple Inc. • curriculum; training; employers
- Chicago Learning Exchange • leadership; technical assistance
- Chicago Public Schools • leadership; facilities; resources
- City Colleges of Chicago • leadership; facilities
- City of Chicago • leadership
- Department of Family & Support Services • leadership; resources

THOUGHT PARTNERS

- Chicagoland Workforce Funders Alliance • workforce
- JPMorgan Chase • workforce
- World Business Chicago • workforce
- Thrive Chicago • workforce
- United Way • neighborhood networks; workforce

DONORS

- Diamond Assets • equipment
- ZuluDesk • mobile device management

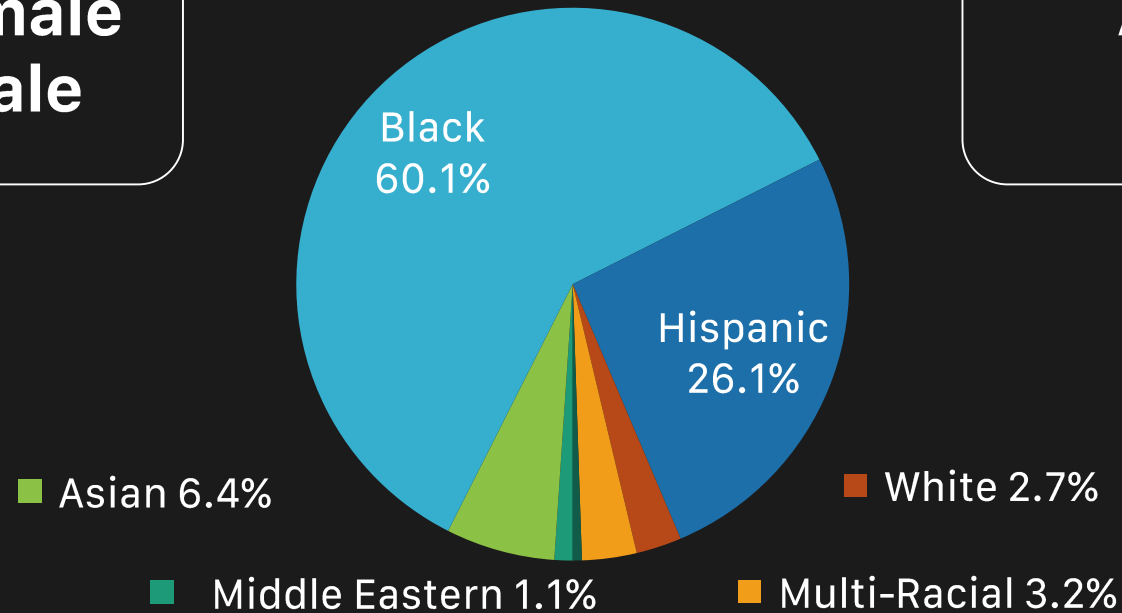
Swift Training Program

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Swift Training Program | Demographics

188 Participants

50.5% Female
47.9% Male

Avg Age
16.9



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Swift Training Program | Characteristics

91.5% in-school / **8.5%** not In-school

80.9% high school students

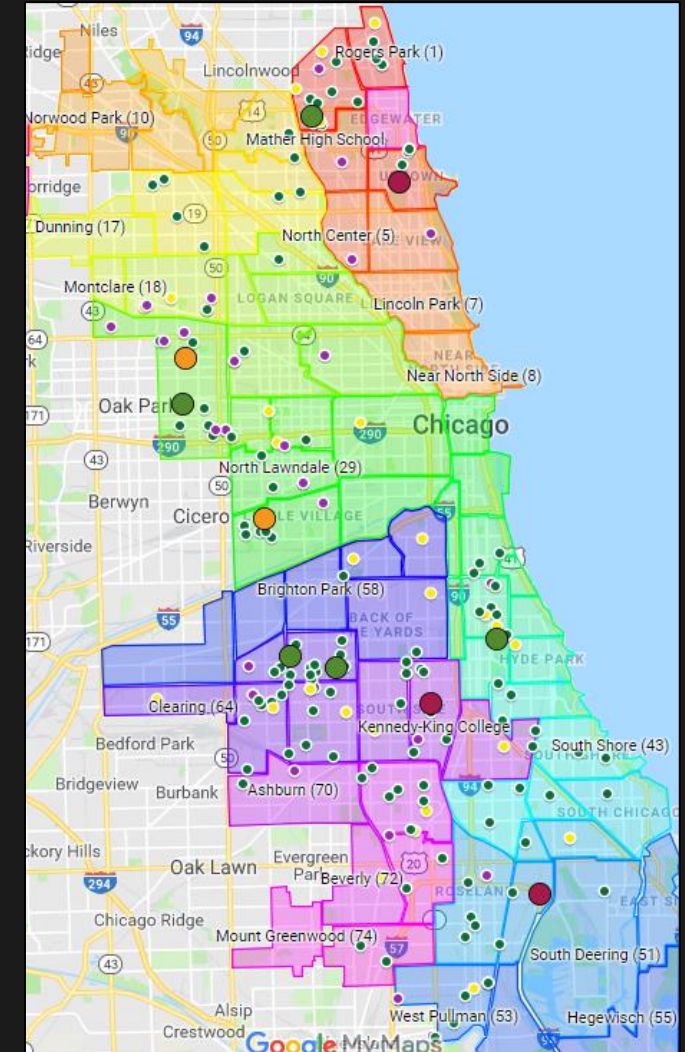
81.6% CPS (representing 53 HS)

18.4% non-CPS

13.3% participants from spring coding clubs

52 of 77 Community Areas

40 of 50 Wards



Swift Training Program | Persistence

84.3% overall attendance rate

62.6% of participants with an attendance rate at or above 90%

70.1% of participants with an attendance rate at or above 80%

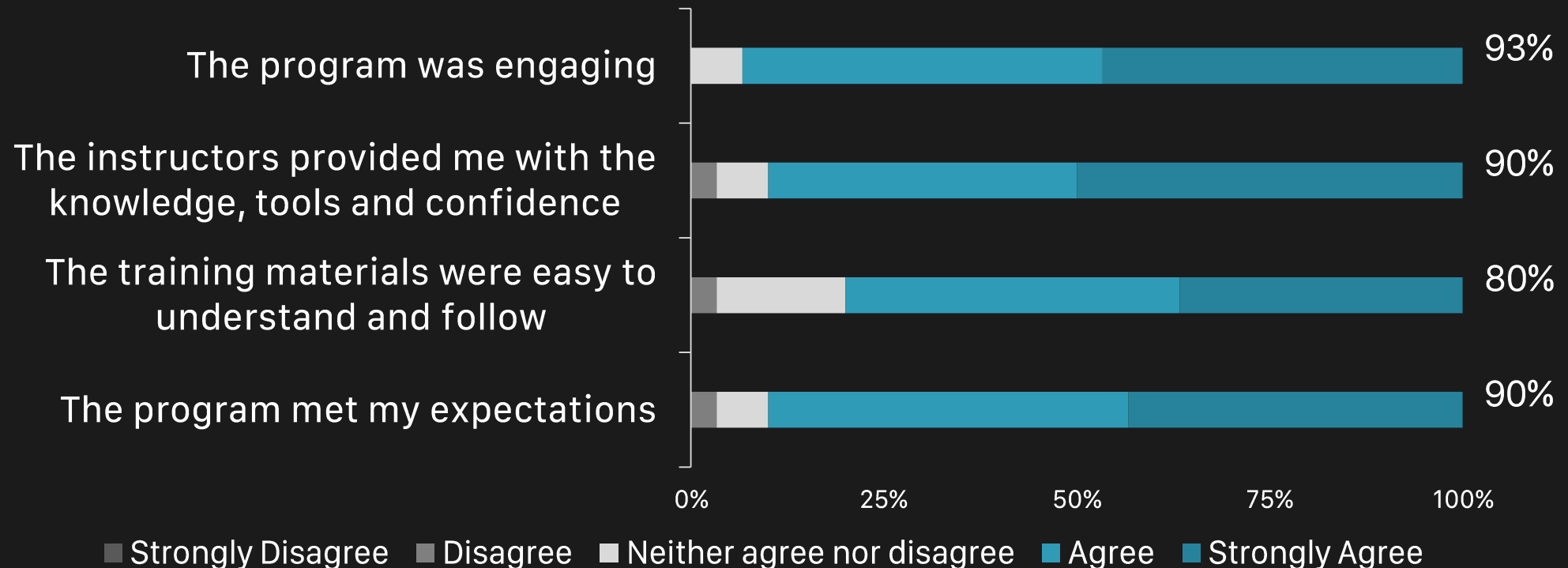
73.4% participated in the App showcase competition

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Swift Training Program | Survey Feedback

67.7% interested in coding or app development
(compared to 56.7% prior to internship)

96.7% would recommend program to a friend



Swift Training Program | Survey Feedback – Comments

"The experience was memorable. It helped me decide that I want to pursue something in IT. It was also interesting seeing and knowing that there are women who are in IT, it made me hopeful to a woman in IT."

"...one of the greatest experiences of my life and if I could do something similar next summer, I totally would"

"Very good program that can really help talented people out"

"Great program to be in, probably the best summer vacation"

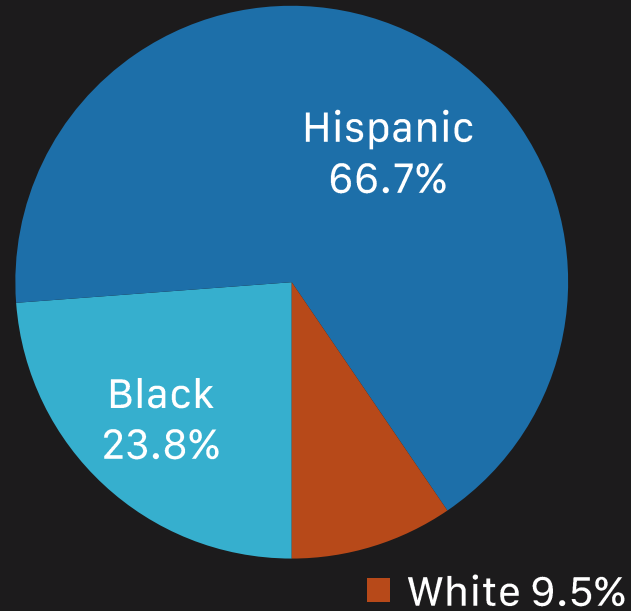
"The program surprised me and I would like to do it again if I was able to do it on my own time"

Pre-Professional Internships

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Pre-Professional Interns | Demographics

41 Participants

28.6% Female
71.4% Male



Avg Age
17.6

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Pre-Professional Interns | Characteristics

81% high school students

19% college students

10% from spring coding clubs

15 of 77 Community Areas

15 of 50 Wards

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Pre-Professional Interns | Employers

Health Care

- Ann & Robert H. Lurie Children's Hospital (2)
- Rush University Medical Center (3)
- University of Illinois Hospital & Health Sciences System (2)

Incubator

- Twenty-One Twelve (5)
- UChicago Polsky Center for Entrepreneurship (1)

Retail

- Fossil Group (2)

Small Business

- Goldman Sachs 10,000 Small Businesses (1)
- Chicago Portfolio School (2)
- Iris Reading (2)
- Project Lead The Way (1)

Chemical

- The Dow Chemical Company (2)

Financial Services

- CME Group (1)
- JPMorgan Chase (2)
- TransUnion (3)

Professional Services

- Accenture (2)
- Kirkland & Ellis LLP (1)

Technology

- ICF Olson (1)
- IBM (4)
- iManage (2)

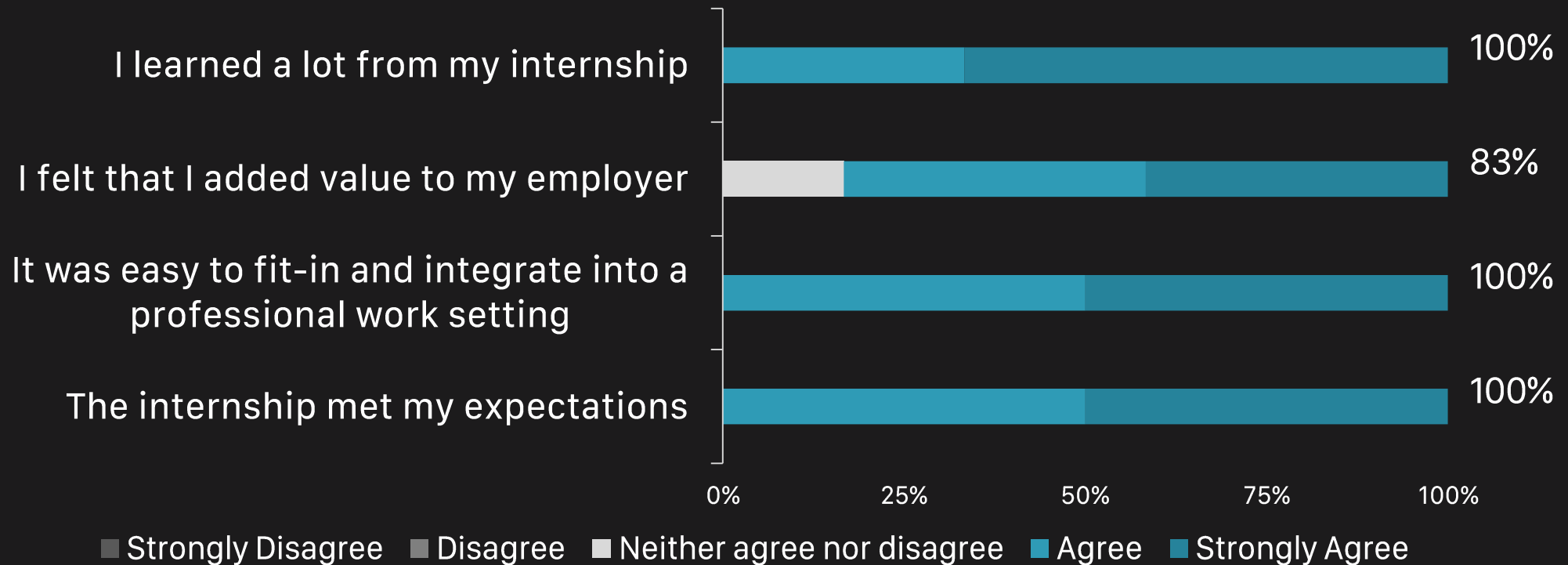
Transportation, Distribution & Logistics

- GE Transportation (4)

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Pre-Professional Interns | Survey Feedback (Youth)

83.3% interested in pursuing a career pathway in coding/technology
(compared to 41.7% prior to internship)



Pre-Professional Interns | Survey Feedback (Youth) – Skills Learned/Improved

"I've improved in my communicating skills and I've learned more tools for coding."

"Wire framing, code in Swift, presentation skills"

"My skills in problem solving and building more confidence"

"I learned how a real project is run and how to deal with the challenges that faced us"

"Working in groups to build apps. Didn't do much of this in school and working together is a very different field compared to doing everything your way."

Pre-Professional Interns | Survey Feedback (Youth) – Best Part

“Working in an actual development office was amazing because it shows how you work with a company. Also it was great because all the employees treated you more mature than the age I was.”

“Witnessing first hand how what some of the people on the team did impacted the effectiveness and potential of the hospital.”

“Being able to go downtown and see the beautiful city I live in. Also the app show case that was held downtown with my fellow internship friends.”

Pre-Professional Interns | Employer Feedback – Comments

"...it would be valuable to continue partnering so that students get opportunities and exposure to IT positions for the future."

"It would be great if there was some continued programming education to occur during the school year..."

"More exposure to how IT is used in the corporate world vs. general app knowledge beforehand would help both the interns and corporate sponsors start quicker."

"If interest and budget allows, would be interested in having our interns back next summer to continue their work."

"We may decide to provide part-time employment to one of them."

Columbia College Online Scholarship

Scholarship Winner #1

"Going into the One Summer Chicago's Everyone Can Code program, I had no idea what to expect. I had no prior coding knowledge but found myself producing the basis of the coding that would demonstrate the capabilities of an app that I was able to create.

Overall my experience with the program was surprisingly exciting and motivating. Applying what I had learned and watching it develop into something bigger definitely encouraged me to want to learn more. My biggest achievement during my time involved with Everyone Can Code was having the honor of presenting the application I created to Barrack Obama alongside my teammates."

- 20 year old black female
HS Graduate not in school from West Pullman

Scholarship Winner #2

"My experience with Everyone Can Code was like no other. Over the course of this program, I experienced growth and restored hope. Being a very active and involved person, I often had to travel far for access to technology like this. I was born and raised on the Westside, but for some reason I had never heard of Westside Health Authority, let alone them being a place teach coding! Joining this gave me hope in my community, knowing that resources are closer than I think. The opportunity was always in my hands and I just had to grasp it. I finally did, and this was my biggest achievement. I stepped outside of my shell as an artist, thinker, and collaborator when designing my two apps... I wanted to create something inclusive and specifically for locals. Although I didn't win the showcase, I drew my community closer..."

- 20 year old black female
college student from Austin

Scholarship Winner #3

"When I first started coding with Olive Harvey I never imagined having an app good enough to present to 200+ people let alone to Barack Obama.

My group and I joked about making it to the semifinals and laughed at the idea of getting selected. The Everyone Can Code program opened my eyes to the possibilities that wait for me.

My biggest achievement was not presenting in front of Barack Obama, it was the confidence that App Development training gave me to present despite me being an Africa American female from the south side of Chicago who is looked at differently."

- 16 year old black female
high School student from Pullman