Alessa R. Cross

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EDUCATION

The University of Chicago — Chicago, IL
Bachelor of Science in Computer Science — Expected June 2020
- Dean's List 2016 - 2017, 2017 - 2018
- Relevant Coursework: Computer Science I and II, Computer Systems, Computer Security, Discrete Mathematics, Theory of Algorithms, Mobile Computing, Linguistics, Microeconomics

Phillips Academy, Andover — Andover, MA
Diploma — June 2016

PROJECTS & EXPERIENCE

FUSE (University of Chicago Booth School of Business Polsky Accelerator) — Chicago, IL
Software Engineering Intern — June 2018 - August 2018
- Designed UI and programmed front-end of social media iOS application
- Built functionality that allows users to create categorized news feeds populated with content from various social media and news sources, seamlessly drag content from feeds into internal group chats, and watch live videos together within internal group chats
- Self-taught JavaScript, React, React Native, HTML, CSS in 3 weeks and built interface in the following 7 weeks
- Assisted in planning company vision and Demo Day pitch, delivered to audience of 250+

The University of Chicago Office of Enrollment and Student Advancement (ESA) — Chicago, IL
Technology Intern — June 2017 - October 2017
- Maintained enrollment system data, de-duplicated invalid student records and supported Admissions staff with technology equipment and system functionality

Safeguard+ — Tokyo, Japan
Founder — August 2013 - present
- Designed and founded an iOS application that alerts users seconds before an earthquake, displays tsunami statistics and designated nearby safe zones on a map using the Japan Meteorological Agency's API

Vietnam Hackademics — Ho Chi Minh City, Vietnam
Contestant — August 2015
- Recipient of Youngest Entrepreneur Award and 3rd place at national education technology hackathon (over 100 participants)
- Designed and pitched an Android app, "f1bonacci," a platform for local elementary school students to post math problems and certified teachers to respond with pictures of step-by-step answers

EXTRACURRICULAR ACTIVITIES

compileHer, The University of Chicago — Chicago, IL
Operations Manager — November 2017 - present
- Helped draft grant to the University Women's Board to fund coding workshops and hackathons for local female-identifying/non-binary middle schoolers interested in Computer Science
- Coached a team of five 6th graders at the designHer hackathon and helped them win the Best Design award

UChicago TechTeam, The University of Chicago — Chicago, IL
ThinkTank team member — December 2017 - present
- Developed instructional PDFs on how to use Facebook Analytics, Twitter Analytics and Google Drive for TechTeam's clients, primarily Chicago non-profits and members of local government

PROJECTS 2017 - 2018

- Chess Game (Racket)
- Crypto Double Spending Detection and Deanonymization (C)
- Bit Manipulation (C)
- Defused a Binary "Bomb" (C)
- Cache Simulator + Optimized Matrix Transpose (C)
- Dynamic Storage Allocator (writing malloc, free, realloc, and calloc functions in C)
- Basic Twitter Replication (JavaScript, HTML and CSS)
- Trello Replication (React.js, JavaScript)
- Notes App for iPhone (React Native, JavaScript)

SKILLS & INTERESTS

Programming: Python, JavaScript, C, React Native, React, x86 assembly language (AT&T syntax), HTML, CSS, Racket (Lisp-Scheme family), Git, Apache Subversion

Languages: English and Japanese (fluent), Spanish (proficient), Basque (beginner)

Interests: Karate (brown belt), Guide/Translator at Japanese Tea Ceremony Garden (tantoku.jp), Kappa Alpha Theta sorority

Awards: UChicago GHC Scholar 2018, UChicago Summer Action Grant 2018 recipient, Dean's List 2017 - 2018, Dean's List 2016 - 2017, Vietnam Hackademics Youngest Entrepreneur and 3rd place award 2015