

DAVID CHU

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected May 2020

Bachelor of Science, Computer Science

GPA: 4.0, Dean's List Honors

Relevant Courses: Honors OO Design and Data Structures, System Organization, Operating Systems with Practicum, Algorithms, Computer Vision, Cryptocurrencies

RELEVANT EXPERIENCE

Design & Tech Initiative, Cornell University

Oct. 2016 - Present

Team Engineering Lead, Webmaster

- Employed recursive algorithm to achieve $O(n)$ performance in schedule ordering
- Developed Android and iOS app for student orientation and obtained 2.1k+ installs
- Communicated between RESTful database and app, converting JSON into CoreData objects
- Organize and facilitate weekly team meetings to simulate an Agile workplace

Hospitality Hackathon, Cornell University

Oct. 2017

iOS Developer

- Created iOS app for hotel service workers to record discrepancies in guest rooms
- Utilized Siri Voice Recognition API to record service workers' observations
- Integrated Microsoft Azure Facial Recognition API to record deltas in before-and-after photos

Internet of X Research, National Taiwan University

July 2017 - Aug. 2017

Research Intern

- Communicated between a MediaTek LinkIt IoT platform and Earthworm earthquake server through TCP in Python
- Translated C code to Python to convert Tracebuf earthquake binary data into WaveMessages
- Delivered presentations on early earthquake warning systems and their benefits in IoT

App Design Team, Newton South High School

Feb. 2015 - June 2016

Founder, Full-stack Developer

- Delivered biweekly lectures on clean code and routing algorithms for students
- Developed in two-person team to create iOS and Android app for our high school, obtaining 1.2k+ app installs during first year (out of 2k students)
- Created web server that automatically scrapes emails and processes the text within with regex

SPECIALIZED SKILLS

Programming Languages

Java, Swift, C, Javascript, PHP, HTML, CSS, MySQL, MIPS
Assembly, Verilog, Python

Programs

IntelliJ, Android Studio, Xcode, CLion, Atom, Visual Studio, Logisim,
Intel Quartus

Languages

Mandarin (native), Russian (beginner)