

# DAVID CHU

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## EDUCATION

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**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, Functional Programming, Discrete Structures, System Organization, Operating Systems with Practicum

## RELEVANT EXPERIENCE

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**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

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**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)