

# Ryan Ku

## software engineer

### Contact

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<https://github.com/ryanku98>

### Education

#### Santa Clara University

M.S. Software Engineering  
September 2019 – June 2021

#### Santa Clara University

B.S. Computer Engineering  
Mathematics Minor  
September 2016 – June 2020  
Cum. GPA: 3.5/4.0  
Major GPA: 3.8/4.0

### Skills

#### Programming

Python • C++ • C • Java •  
JavaScript • Flask • HTML • CSS

#### Tools and Operating Systems

Git • Android Studio • Windows  
OS • Mac OSX • Linux  
(Ubuntu/CentOS)

### Experience

June 2019 – August 2019

Washington, DC

#### Software Associate • Summer Intern • Anzu Partners

- ❖ Built software tools to interface with various APIs to streamline and automate resume collection and funneling
- ❖ Helped develop Flask application to interface with proprietary NIR spectrometer and map data
- ❖ Participated in diligence efforts as well as pitch calls with various software startups

June 2018 – August 2018

Santa Clara, CA

#### Network Engineer • Summer Intern • Hillstone Networks

- ❖ Researched propagation, infiltration, and detection-prevention techniques of prominent cryptocurrency-related malware
- ❖ Investigated process initiations/terminations, registry privilege changes, network connections, service ports, and more used by common mining software and numerous malware to apply to current and future products for advanced detection

### Coursework

Theory of Algorithms  
Software Engineering  
Operating Systems  
Computer Networks  
Advanced Data Structures  
Formal Language Theory  
Compiler Construction  
Truth, Deduction, & Computation  
Cryptography

### Projects

#### ChassisBot

Lead Software Engineer

June 2019 – present

- ❖ Designing a unique, application-agnostic robot platform to collectively satisfy vehicle needs for multiple industrial partners
- ❖ Building a robust REST API to provide “plug and go” integration with a variety of open-source hardware (e.g. sonar sensors, cameras, motors, etc.)
- ❖ Creating and implementing a level 2+ autonomous driving system as proof-of-concept for API package and robot platform

### Interests

Internet Privacy & Net Neutrality  
IoT & Smart Home Devices  
Cars & Autonomous Tech  
Machine Learning & AI  
Statistics & Numbers  
Ultimate Frisbee, Soccer  
Desperately learning Korean

#### Autonomous Underwater Vehicle

Lead Software Engineer

August 2014 – December 2016

- ❖ Participated as a high school team in the 2015 Robosub competition for autonomous underwater vehicles (AUVs)
- ❖ Led the programming team to design a program to run on Beagleboards to interface with various sonar sensors and motors in JavaScript
- ❖ Co-led the electrical team to design and implement efficient and safe wiring in waterproof housing