

# Richard Huang

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## Education

### University of California, Berkeley Computer Science BA

Aug 2018 – Dec 2020 3.8 GPA

Extracurricular: Upsilon Pi Epsilon (UPE) Computer Science Honor Society, Open Computing Facility (OCF) Staff

Coursework: Algorithms, Data Structures, Machine Structures, Operating Systems, Database Systems, Networking, Security, AI, Discrete Math, Probability Theory

## Experience

### Production Engineer Intern Facebook

Jun 2020 – Aug 2020 Menlo Park, CA

- Built a stream processing pipeline test framework with a new Python → IR Language → Stylus C++ stack
- Implemented Python → C++ compiler for complex and native static expressions for new pipeline stack
- Fixed a 3 month issue with TestSlide on migrating the codebase to a newer version

### Software Engineer Intern 8th Wall

May 2019 – Aug 2019 Palo Alto, CA

- Constructed new sign up flow for new console account system using React, Redux, Express, AWS Cognito
- Programmed contract automation using Javascript, PostgreSQL, Stripe
- Automated application billing and upgrading

### Linux System Administrator ISG UC Berkeley

Oct 2018 – Jan 2020 Berkeley, CA

- Mass deployed a custom Unix OS onto hive of 100+ computers in Berkeley labs
- Prevented storage overload bug that would have caused system-wide crash
- Hosted and ran annual ACM International Collegiate Programming Contest

## Projects

### Homelab aeoly.us/s/homelab

Neverending Golang, Docker, Ansible

- Wrote a modular machine-agnostic script that sets up my homelab infrastructure with a single command
- Self-hosted web server, media server, DNS sinkhole, password manager, file-hosting, monitoring system, Minecraft server, virtualization hypervisor
- Shortlinks powered by gull.ml, my simple modern URL shortener written in Go

### Alexa Skills Developer

Dec 2017 Node.js, AWS, Lambda

- Developed 11 Alexa skills using Node.js and AWS Lambda with 7000+ unique users
- Tells users interesting random facts about the topic asked

### Cougles cougle.ml

Feb 2018 PHP, HTML, CSS, Linux

- Created an online anonymous peer-counseling forum with 300+ users to assist students in a high school with a 4:3000+ counselor to student ratio
- Demonstrated to and inspired school district board members to create an advice forum at our school

### EVSD Web App evsd.club

May 2016 – May 2018 Meteor.js, MongoDB, Linux

- Developed a web app that handles all logistics, 400+ users, member balances, \$60k+/year, tournaments
- Responsible for server upkeep, configuration, and reliable operation

## Skills

Languages: Python, Golang, C, Javascript, Java, Kotlin, HTML/CSS, Scheme, LATEX, SQL, Robotics

Tools: Docker, Ansible, PostgreSQL, Git, Linux, Bash, Vim, GDB, AWS, GCP

Libraries/Frameworks: Node, Meteor, Stripe, React, Redux, Express

Human Languages: English (native), Mandarin (fluent), French (proficient)