

ERIC ZHOU

(805) 832-7323 • ericfzhou@berkeley.edu • zehric.github.io • linkedin.com/in/zehric

SKILLS: Java • Go • C • C++ • Scala • Python • JavaScript • SQL • HTML/CSS • Bash • Scheme • MIPS • Cadence/SPICE

EDUCATION

August 2015 - May 2019 (Expected Graduation)

University of California, Berkeley

B.S. Electrical Engineering and Computer Sciences

GPA 3.89

Awards: Dean's List • Eta Kappa Nu

Relevant Courses: **CS61B** (Data Structures) • **CS61C** (Machine Structures) • **CS70** (Discrete Mathematics) • **CS186** (Databases) • **CS170*** (Efficient Algorithms and Intractable Problems) • **CS161*** (Computer Security) • **EECS151*** (Digital Design and Integrated Circuits) • **EE16AB** (Information Devices and Systems) • **EE105** (Microelectronic Devices and Circuits) • **EE140** (Linear Integrated Circuits)

* Currently enrolled

EXPERIENCE

Summer 2017

Software Development Engineer Intern

Amazon

I developed a web UI for Amazon Fresh internal usage that allows for safe and quick updates to merchant schedules. One of the impacts of this tool is that it increases the speed at which Fresh can launch in new regions. The application uses a Scala backend with an AngularJS frontend.

Summer 2016

Software Intern

Rently

I created support for controlling Rently Keyless smart home devices on the Amazon Echo. Due to the lack of native support in Alexa for smart home integration with locks, I ended up creating an Amazon Alexa Skill that forwards raw English text to my custom natural language parser, Imperative-Compromise, which processes the command and makes a RESTful call to Rently's servers, all done in Node.js.

PROJECTS

Course Projects

Mixed Signal Chip

The analog parts of a mixed-signal chip in 90nm process for embedded IOT applications, including an 8-bit successive-approximation analog to digital converter, a programmable gain amplifier, bandgap voltage reference and temperature sensor, and an analog multiplexer. Final design was simulated and tested in Cadence.

Database

A database written in Java. I implemented record manipulation, a B+ tree, multiple query operators, and a System R-like query optimizer.

SIXT33N

Final project of the EE16 course series. It is a mobile robot on 3 wheels that moves around according to speech input. It uses the MSP430 Launchpad as its guts with some circuitry for driving the motor and sensing through a microphone. Voice recognition is implemented with PCA classification and straight driving with stable eigenvalue placement in closed loop negative feedback.

Personal Projects

Anime Calendar

A Japanese television animation calendar desktop application. It is written in Node.js and uses the Electron framework. Pulls information from the AniList API, organizes it based on air time, and displays it to the user with a work-in-progress GUI.

grocery-split

A simple web server written in Go that allows for uneven bill splitting, originally created to split the grocery bill.