

Ryan Thornton

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Education

BA | Computer Science and Physics

UC Berkeley | 2017 - 2021 (expected); in progress

- gpa: 3.696
- CS/EE gpa: 3.8

Coursework

- Computer Architecture
- Quantum Algorithms
- Analytic Mechanics
- Quantum Mechanics
- Discrete Mathematics
- Information Devices
- Embedded Systems
- Properties of Materials
- Data Structures

Skills

Language Proficiency

- Python (2,3)
- C++
- C
- Java
- Bash
- RISC-V
- SQLite
- LISP (Scheme)
- Go

Technical Experience

- Circuit and processor design
- Linux, BSD, Mac OSX, Windows, iOS, Android
- SolidWorks CSWA: C-XBYHH6HWJ9

Experience

Teaching Assistant: CS 61C

University of California | Berkeley, CA

June 2019 to August 2019;

August 2019 to December 2019

Facilitated discussion, office hours and laboratory sections for Computer Science 61C: Great Ideas in Computer Architecture. Course teaches C programming, RISC-V assembly, RISC-V data path, pipelining and parallelization.

IT Support Assistant

Amethod Public Schools | Oakland, CA

February 2018 to August 2018

Performed logistical duties, repaired devices and revamped an antiquated deployment system.

Tutor: CS 9

University of California | Berkeley, CA

January 2019 to May 2019

Tutored students in the CS9 series self-paced courses at UC Berkeley in Python, C++, Java, and C.

Research Intern

Fermi National Accelerator Laboratory | Batavia, IL

June 2016 to July 2016;

Volunteered prior and subsequent years

Worked on telescope design and simulation, designed data acquisition system for 9 foot radio telescope in Python 2.

Director's Assistant for Trumpets

UC Marching Band | Berkeley, CA

Volunteer; March 2018 to March 2019

Acted as student-leader for 36-person section in Cal Band.

Material Handler

Hoffer Plastics | South Elgin, IL

June 2017 to July 2017

Ensured constant material supply and performed basic maintenance on injection molding machines.