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Jeffrey Tong

Education

2022–2025 **B.S. Electrical Engineering and Computer Sciences (EE/CS)**, *UC Berkeley*, 3.814/4.000

Relevant Coursework: **CS 61A:** Structure and Interpretation of Computer Programs (Python, SQL), **CS 61B:** Data Structures (Java), **CS 61C:** Computer Architecture (C, RISC-V), **EECS 16A/B:** Designing Information Devices and Systems I/II (Jupyter, Arduino), **CS 70:** Discrete Mathematics and Probability Theory, **CS 161:** Computer Security, **CS 186:** Intro to Databases

Computer Skills

Languages Python, Java, C++, JavaScript, HTML/CSS, SQL, Swift, TypeScript, LaTeX, C

Services Google Docs Editors, Microsoft Office Suite, Git, Heroku, Figma

Frameworks Node.js, Express.js, RedwoodJS, ReactJS

Experience

Internships

Summer 2023 **Product and Operations**, *Utopic.ai*

- Developed software for a Web3 startup rewarding content interactions with crypto incentives
- Worked with RedwoodJS, a full-stack web app framework
- Built a new homepage based off a Figma design using ReactJS and Tailwind CSS

Projects

Spring 2023 **Builder and Programmer**, *S1XT33N*, EECS 16B at UC Berkeley

- Built robot car in a lab group from scratch that can drive straight, turn left or right, and stop
- Leveraged machine learning with Python to process voice commands and classify them as navigation directions
- Controlled the car via an Arduino microcontroller and C

2017–2021 **Captain and Lead Developer**, *DustWatch*

- Wrote code for iOS app, DustWatch, in Swift and published to App Store
- Delivered forecasted air quality patterns using National Weather Service (NWS) data to send early warnings
- Presented at major national/international scientific conferences (AGU Fall 2018, AMS 2019, NASA HAQAST5)

Jobs

Summer 2023 **Online Instructor**, *iD Tech*

- Taught for a large STEM camp
- Prepared and delivered lessons for dozens of private and group lessons
- Covered Python (with Pygame), Java, p5.js, and animation/game design

Research

2021–2022 **Set Cover Problem Research Internship**, *Univ. of Maryland*, Supervised by Dr. William Gasarch

- Discovered new solutions for key problem in operations research and complexity theory with C++
- Wrote novel algorithms suited to problem contexts to drastically optimize performance
- Created a scientific paper, presentation, and poster to present results

Leadership and Volunteering

2022–Present **Problem Writing and Logistics**, *Berkeley Math Tournament (BMT/BmMT)*

- Co-organized BMT, fall tournament for high schoolers (1200 participants)
- Co-organized BmMT, spring tournament for middle schoolers (700 participants)

Updated November 4, 2023