Jeffrey Tong

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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

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

Jun–Jul 2019 **NWS Dust Storm Data Analysis**, *University of Maryland*
○ Wrote programs to process and convert data collected by National Weather Service (NWS) on dust storms
○ Helped write report on completeness and accuracy of data as well as trends
○ Report presented at scientific conference

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)