

JASON TANG

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EDUCATION

University of California, Berkeley

Bachelor of Science in Electrical Engineering & Computer Science

GPA: 3.96

Expected May 2027

EXPERIENCE

UC Berkeley Electrical Engineering & Computer Science

Aug 2025 – Present

Lab Teaching Assistant

Berkeley, CA

- Support 200+ students with circuit analysis, WaveForms, and LTSpice through office hours and an online forum
- Host weekly lab sections for 20+ students, guiding hands-on circuit construction and use of instrumentation tools
- Help develop weekly prelab and lab assignments, adjusting course content for clarity of explanations

UC Berkeley Computer Science Mentors

Jan 2025 – Present

Senior Mentor

Berkeley, CA

- Supported 800+ students with data structures and algorithms in Java through small group discussion sections
- Created and delivered explanations, examples, and exercises on topics such as asymptotics, LLRBs, and sorting
- Earned an average teaching rating of 4.67/5.00 from feedback forms regarding helpfulness, pacing, etc

UC Berkeley Operations and Behavioral Analytics Lab

Jan 2025 – May 2025

Undergraduate Research Assistant

Berkeley, CA

- Conducted research in human-AI interaction to investigate non-compliance with artificial intelligence
- Discussed findings with students and professor in close discussions, resulting in an exploration of new directions for potential research and existing gaps of knowledge

UC Berkeley Engineers and Mentors

Aug 2024 – Dec 2024

Primary School Mentor

Berkeley, CA

- Taught Title 1 elementary students foundational STEM concepts such as human bone anatomy and physics forces (drag, thrust, lift, gravity) through creative demonstrations and hands-on activities
- Designed interactive lesson plans and experiments to engage students and spark early interests in science

PROJECTS

Aidoku | Xcode, Swift, SwiftUI, UIKit

Aug 2025 – Present

- Contributed to an open-source iOS, iPadOS, and macOS manga reading app
- Implemented bugfixes for app GUI and proper user authentication with FaceID/TouchID, leading to a smoother and more secure app experience

Secure File Sharing System | Go

Jun 2025 – Aug 2025

- Designed a secure file sharing scheme with login, file storage, and file sharing functionality
- Utilized PBKDFs, symmetric, and public-key cryptography to encrypt, sign, and verify data
- Analyzed RFC security standards to confirm proper protocol usage and compliance with established practices
- Implemented with Go and golang/crypto library and wrote 2000+ lines of code to test said implementation for confidentiality, integrity, and authenticity of information, earning top 5 scoring design in a class of 140

Two Stage Pipelined RISC-V CPU | Logisim

Jan 2025 – May 2025

- Built a two-stage pipelined RISC-V CPU architecture with support for 36 R/I/S/B/U/J instruction types
- Implemented a register file, branch comparator, memory system, and control logic to enable full CPU functionality
- Added pipelining and hazard detection, increasing throughput and reducing stalls to improve performance

Dungeon Crawler Game | Java

Aug 2024 – Dec 2024

- Developed a tile-based dungeon crawler with pseudo-random maps generated using binary space partitioning
- Incorporated avatar movement, dynamic lighting, and save/load functionality for better gameplay experience

TECHNICAL SKILLS

Languages: Verilog, C, Python, x86, RISC-V, Java, Go, Swift, SQL, JavaScript, HTML/CSS, Lisp (Scheme)

Developer Tools & Frameworks: Docker, Valgrind, GDB, Logisim, WaveForms, LTSpice, SwiftUI, UIKit

Libraries: NumPy, Matplotlib, crypto