

JASON TANG

(626) 247-0009 | jason.tang@berkeley.edu | linkedin.com/in/jason-tang-berkeley | [jaysoor.github.io](https://github.com/jaysoor)

EDUCATION

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| University of California, Berkeley <i>Bachelor of Science in Electrical Engineering & Computer Sciences</i> | GPA: 3.96 Expected May 2027 |
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EXPERIENCE

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| UC Berkeley Electrical Engineering & Computer Sciences <i>Lab Teaching Assistant</i> | Aug 2025 – Present <i>Berkeley, CA</i> |
| <ul style="list-style-type: none">Support 200+ students with circuit analysis, WaveForms, and LTSpice through office hours and an online forumHost weekly lab sections for 40+ students, guiding hands-on circuit construction and use of instrumentation toolsHelp develop weekly prelab and lab assignments, adjusting course content for clarity of explanations | |
| UC Berkeley Computer Science Mentors <i>Senior Mentor</i> | Jan 2025 – Present <i>Berkeley, CA</i> |
| <ul style="list-style-type: none">Supported 800+ students with data structures and algorithms in Java through small group discussion sectionsCreated and delivered explanations, examples, and exercises on topics such as asymptotics, LLRBs, and sortingEarned an average teaching rating of 4.67/5.00 from feedback forms regarding helpfulness, pacing, etc | |
| UC Berkeley Operations and Behavioral Analytics Lab <i>Undergraduate Research Assistant</i> | Jan 2025 – May 2025 <i>Berkeley, CA</i> |
| <ul style="list-style-type: none">Conducted research in human-AI interaction to investigate non-compliance with artificial intelligenceDiscussed 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 <i>Primary School Mentor</i> | Aug 2024 – Dec 2024 <i>Berkeley, CA</i> |
| <ul style="list-style-type: none">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 activitiesDesigned interactive lesson plans and experiments to engage students and spark early interests in science | |

PROJECTS

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| Five Stage Pipelined RISC-V CPU <i>Verilog, SystemVerilog</i> | Aug 2025 – Present |
| <ul style="list-style-type: none">Built a five-stage pipelined RISC-V CPU in Verilog with support for CSR instructions in privileged architectureAdded pipelining, hazard detection, and data forwarding to increase throughput and reduce stallsIncorporated SystemVerilog Assertions to verify correctness of design and proper functionality in design flow | |
| Pintos Operating System <i>C, x86</i> | Aug 2025 – Present |
| <ul style="list-style-type: none">Built and extended core components of an OS to support process control, multithreading, and UNIX FFSImplemented multithreading support and synchronization primitives (locks, semaphores, condition variables)Utilized GDB extensively to trace low-level kernel execution, inspect memory, and uncover subtle concurrency and synchronization bugs, demonstrating strong debugging and systems-level problem-solving skills | |
| Aidoku <i>Xcode, Swift, SwiftUI, UIKit</i> | Aug 2025 – Present |
| <ul style="list-style-type: none">Contributed to an open-source iOS, iPadOS, and macOS manga reading appImplemented bugfixes for app GUI and proper user authentication with FaceID/TouchID, leading to a smoother and more secure app experience | |
| Secure File Sharing System <i>Go</i> | Jun 2025 – Aug 2025 |
| <ul style="list-style-type: none">Designed a secure file sharing scheme with login, file storage, and file sharing functionalityUtilized PBKDFs, symmetric, and public-key cryptography to encrypt, sign, and verify dataAnalyzed RFC security standards to confirm proper protocol usage and compliance with established practicesImplemented 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 | |

TECHNICAL SKILLS

Languages: SystemVerilog, Verilog, C, x86, RISC-V, Go, Rust, Swift, Java, Python, SQL, JavaScript, HTML/CSS

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

Libraries: NumPy, Matplotlib, crypto