

# JASON TANG

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## EDUCATION

<b>University of California, Berkeley</b> <i>Bachelor of Science in Electrical Engineering &amp; Computer Sciences</i>	GPA: 3.96 Expected May 2027
<b>Relevant Coursework:</b> Digital Design and Integrated Circuits (in progress), ASIC Design (in progress), Computer Architecture, Operating Systems, Computer Security, Internet Architecture and Protocols, Data Structures	

## EXPERIENCE

<b>UC Berkeley Electrical Engineering &amp; Computer Sciences</b> <i>Lab Teaching Assistant</i>	Aug 2025 – Present <i>Berkeley, CA</i>
<ul style="list-style-type: none"><li>Support 200+ students with circuit analysis, WaveForms, and LTSpice through office hours and an online forum</li><li>Host weekly lab sections for 40+ students, guiding hands-on circuit construction and use of instrumentation tools</li><li>Help develop weekly prelab and lab assignments, updating and adjusting course content for precision</li></ul>	
<b>UC Berkeley Computer Science Mentors</b> <i>Senior Mentor</i>	Jan 2025 – Present <i>Berkeley, CA</i>
<ul style="list-style-type: none"><li>Supported 800+ students with data structures and algorithms in Java through small group discussion sections</li><li>Created and delivered explanations, examples, and exercises on topics such as asymptotics, LLRBs, and sorting</li><li>Earned an average teaching rating of 4.67/5.00 from course feedback forms regarding helpfulness, pacing, etc</li></ul>	
<b>UC Berkeley Operations and Behavioral Analytics Lab</b> <i>Undergraduate Research Assistant</i>	Jan 2025 – May 2025 <i>Berkeley, CA</i>
<ul style="list-style-type: none"><li>Conducted research in human-AI interaction to investigate non-compliance with artificial intelligence</li><li>Discussed findings with students and professor in close discussions, resulting in an exploration of new directions for potential research and existing gaps of knowledge</li></ul>	
<b>UC Berkeley Engineers and Mentors</b> <i>Primary School Mentor</i>	Aug 2024 – Dec 2024 <i>Berkeley, CA</i>
<ul style="list-style-type: none"><li>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</li><li>Designed interactive lesson plans and experiments to engage students and spark early interests in science</li></ul>	

## PROJECTS

<b>Five Stage Pipelined RISC-V CPU</b>   <i>Verilog, SystemVerilog</i>	Aug 2025 – Present
<ul style="list-style-type: none"><li>Built a five-stage pipelined RISC-V CPU in Verilog with support for CSR instructions in privileged architecture</li><li>Added pipelining, hazard detection, and data forwarding to increase throughput and reduce stalls</li><li>Incorporated SystemVerilog Assertions to verify correctness of design and proper functionality in design flow</li></ul>	
<b>Pintos Operating System</b>   <i>C, x86</i>	Aug 2025 – Present
<ul style="list-style-type: none"><li>Built and extended core components of an OS to support process control, multithreading, and UNIX FFS</li><li>Implemented multithreading support and synchronization primitives (locks, semaphores, condition variables)</li><li>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</li></ul>	
<b>Aidoku</b>   <i>Xcode, Swift, SwiftUI, UIKit</i>	Aug 2025 – Present
<ul style="list-style-type: none"><li>Contributed to an open-source iOS, iPadOS, and macOS manga reading app</li><li>Implemented bugfixes for app GUI and proper user authentication with FaceID/TouchID, leading to a smoother and more secure app experience</li></ul>	
<b>Secure File Sharing System</b>   <i>Go</i>	Jun 2025 – Aug 2025
<ul style="list-style-type: none"><li>Utilized PBKDFs, symmetric, and public-key cryptography to design a secure file sharing system with user login</li><li>Analyzed RFC security standards to confirm proper protocol usage and compliance with established practices</li><li>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</li></ul>	

## 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