Jason Zheng

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Objective

To build innovative, reliable systems that can create real-world impact.

Relevant Experience

Project Software Developer Sep 2025 – Present
UBC Faculty of Land and Food Systems *Vancouver, BC*

- Working part-time on a full-stack external Canvas app, built with Django, to save over 10 hours per week for instructors.
- Utilized OAuth and Django's Object-Relational Mapper to allow seamless authentication and login.
- Interacted with the Canvas API to fetch class data, restricting access to instructors, organizing students and updating schedules.
- Deployed tool while continually working with professors to improve features and fix bugs.

Software Engineer Intern Jan 2025 – Aug 2025
NETINT Technologies *Burnaby, BC*

- Worked on developing the firmware/software stack for NETINT's flagship Quadra chip, a custom ASIC video transcoding accelerator.
- Developed 15+ unique python test scripts for customers like Netflix, Disney, TikTok, and Apple to simulate custom workflows and enviorments.
- Worked on debugging in-house transcoding APIs that interface with industry standard video tools like FFmpeg and GStreamer.
- Developed and improved Jenkins test automation infrastructure for nightly regression testing.

Undergraduate Teaching Assistant Sep 2024 – Present
University of British Columbia *Vancouver, BC*

- CPSC 110 (Intro to CS), MATH 100 (Calculus I), MATH 180 (Calculus I)

Education

University of British Columbia Expected April 2028
Bachelor of Science in Computer Science *GPA: 94.3%*

- Y.P. Heung Foundation Award in Science (Valued at $5000, 1 of 6 recipients in entire faculty)
- 2 x Trek Excellence Scholarship (Top 5% of faculty & year)
- Charles and Jane Banks Scholarship

Projects

Post-Trade Dashboard | *TypeScript, React, Tailwind CSS, Python* June 2025 – Present

- Developing a post-trade dashboard to graph returns and visualize portfolio re-balancing based on quant views for UBC Trading Group.
- Worked on implementing the Black-Litterman Model delivered through a custom API endpoint with granular control of start/end dates and re-balancing frequency.
- Utilized React to create a responsive web interface with a polished and interactive UI designed in Tailwind CSS and Figma.

Threadsense AI | *Python, JavaScript, React, Supabase* Sep 2025 – Present

- Developing a chrome extension with UBC Launchpad to easily browse and triage Piazza forums, saving users over 10+ hours per week.
- Seamlessly integrate various LLMs via Groq, to perform post summarization and interactive chatting.
- Utilized a custom RAG vector database to provide instant model context and more fine-tuned responses.

Technical Skills

Languages: Python, Java, C, JavaScript, C++, HTML/CSS, C#, R, Bash
Frameworks: React, Node.js, JUnit, Next.js, Unity, Tailwind CSS, REST APIs, mySQL
Developer Tools: Git, GitHub, VS Code, Jenkins, AWS, Linux
Libraries: NumPy, Matplotlib, Tidyverse, TextBlob