

David Liu

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EDUCATION

University of British Columbia

Vancouver, BC

B.Sc. Major in Computer Science (Co-op Program) — Dean's Scholar (4.33/4.33 GPA)

Expected May 2028

- **Relevant Coursework:** Algorithm Design and Analysis, Software Engineering, Relational Databases, Software Construction, Computer Systems, Computer Networking, Matrix Algebra, Statistics, Data Science, Symbolic Logic

TECHNICAL SKILLS

Languages: C++, C#, Python, Java, TypeScript, JavaScript, SQL, HTML/CSS, R, PowerShell, Bash

Frameworks: React, Next.js, Node.js, Express, Flask, Tailwind, TensorFlow, Scikit

Cloud & Database: PostgreSQL, MongoDB, Firebase, Supabase, Oracle SQL, AWS (RDS, S3, EC2)

Developer Tools: Git, Docker, Visual Studio Code, Figma, Postman, Linux, Github Actions, Claude, Gemini

WORK EXPERIENCE

Full Stack Developer Intern

Incoming Sep. 2026

BC Liquor Distribution Branch

Burnaby, BC

- Selected for an 8-month term to develop full-stack web applications supporting BC Public Service IT infrastructure

Software Development Engineer Intern

Jan. 2026 – Apr. 2026

CaterDash

Vancouver, BC

- Engineered the core end-to-end platform, driving 5k+ active users and generating \$100k+ in sales since launch
- Identified a critical bottleneck and built an automation tool, reducing a 4-hour manual process to 15 minutes
- Improved platform latency by 40% by implementing CloudFront CDN and caching strategies

Undergraduate Teaching Assistant

Aug. 2025 – Apr. 2026

University of British Columbia

Vancouver, BC

- Facilitated weekly lab sessions for 50 students, instructing on digital logic and CPU simulation using Logisim
- Accelerated circuit debugging and concept mastery by mentoring students on complex combinational logic
- Invigilated final exam for course with 400+ students by managing large-scale examination logistics and invigilation

PROJECTS

memri | *React Native, Expo, TypeScript, Tailwind CSS, Figma*

May 2026 – Present

- Building a cozy, scrapbook-inspired mobile app for sharing multi-media memories as interactive digital polaroids

VoiceAgent | *React, TypeScript, Python, FastAPI, WebSockets, OpenAI API*

Mar. 2026

- Built a real-time AI voice assistant leveraging WebSockets for low-latency streaming audio processing
- Engineered a high-performance Python FastAPI backend to manage concurrent user sessions and API pipelines
- Implemented dynamic context injection and prompt handling to deliver responsive, human-like voice conversations
- Awarded 1st Place in the Spring – Most Likely to Become a Startup stream at ProduHacks 2026

TeXume | *Next.js, TypeScript, Supabase, Docker, LaTeX*

Jul. 2025 – Jan. 2026

- Engineered a containerized LaTeX compilation engine using Docker to generate PDFs from dynamic user data
- Implemented a UI rendering pipeline to provide near-instant feedback on resume edits before compilation
- Secured user data with Row Level Security policies via Supabase Auth for granular access control
- Developed a highly modular template system allowing generic JSON data to be injected into arbitrary .tex files

Trailbase | *React, Node.js, Express, Oracle SQL*

Sep. 2025 – Nov. 2025

- Decoupled business logic from HTTP routing using the Controller-Service pattern, improving testability
- Wrote high-performance SQL queries utilizing relational division and nested aggregation for complex data filtering
- Implemented a dynamic query builder on the backend to support flexible, multi-criteria search operations

BOLT UBC Website | *React, TypeScript, Performance Engineering*

Feb. 2025 – Aug. 2025

- Orchestrated a frontend performance overhaul, improving Lighthouse scores from 55 to 100 via code-splitting
- Achieved a 98% reduction in payload size (121MB → 2.1MB) through aggressive asset compression