

# Douglas Chen

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## EDUCATION

### University of British Columbia

Bachelor of Science in Computer Science, Co-op program

Vancouver, BC

Sep 2023 – Aug 2027

- Relevant Courses: Object-Oriented Design, Algorithms and Data Structures, Operating Systems, Databases

## SKILLS

**Languages:** TypeScript/JavaScript, Python, Java, C++, Shell Script, SQL, HTML/CSS

**Frameworks/Tools:** AWS, Redis, PostgreSQL, Docker, Bitbucket Pipelines, LLMs, Git, Node, React, Next, Jest, Puppeteer

## WORK EXPERIENCE

### Software Engineer Intern | NimbleRx (YC W15)

Starting May 2026

- Incoming Platform Team engineer with a focus on AWS optimization, database performance, and internal tooling

### Software Engineer Intern | InsideDesk

Jan 2025 – Aug 2025

- Saved clients **210+ hrs/mo** by building AWS infrastructure to automatically process **320K+ emails** using Lambda
- Automated the collection of **1M+** claims from insurance portals by developing bots using JavaScript & Puppeteer
- Resolved a **3-year** QA bottleneck with PostgreSQL and Python scripts, speeding up a key testing process by **20x**
- Analyzed AWS CloudWatch data to pinpoint and resolve a critical bug, improving data collection reliability by **8x**
- Built CI/CD pipeline for containerized services using Bitbucket Pipelines, Docker, and Linux shell scripts

### AI Consultant | Self-employed

Sep 2024 – Oct 2024

- Secured a **\$5K** contract with a dental software company to develop AI agents for insurance data management
- Engineered an LLM chunking algorithm to process large PDFs, improving data extraction accuracy by **3.5x**
- Deployed a full-stack web app (React & Next) to curate feedback from experts and improve AI model accuracy

### AI Software Engineer Intern | Exchange Solutions | Demo

May 2024 – Aug 2024

- Developed an AI agent that creates mobile app prototypes **under 30 min** using a Human-in-the-loop & JavaScript
- Enabled agent to generate **70%** of its own React Native frontend through autonomous file management using LLMs
- First intern to earn a **Bravo Certificate for Innovation** from senior management after demoing to **100+** co-workers

## PERSONAL PROJECTS

### Dance CV (Hackathon Win) | TypeScript, React, Vite, OpenCV, MediaPipe, Gemini API | Devpost

- Won the **Best Game Project Award** at nwHacks (**630+ contestants**) by building an AI Dance Coach in **12 hours**
- Engineered a pose comparison algorithm that provides feedback by computing RMS errors between joint angles
- **Tripled** accuracy by using the min error across neighboring frames (**sliding window**) to account for pose latency

### ELOv (Hackathon Win) | TypeScript, React, Vite, Vercel, Supabase, Google Analytics, Gemini API, Fetch AI | Devpost

- Launched a LeetCode-style training ground for users to improve their conversational skills across romantic scenarios
- Built a full-stack website in **10 hours** using React & Vite; integrated AI agents via Supabase Edge Functions
- Acquired **15K views**, **140+ users**, **400+ submissions**, and **17-min avg sessions** through organic marketing

### Free Food @ UBC | TypeScript, React, Vite, Google Analytics, AWS (Lambda, SQS, Dynamo, Bedrock & API Gateway) | Visit

- Developed a platform to combat food insecurity for students by aggregating events with free food from **400+ orgs**
- Automated event scraping pipeline using AWS to route, process, and store **2500+** Instagram post previews
- Drove **3K visits** and **100+ active users** in under 2 weeks with a **\$0 budget** through social media platforms

## LEADERSHIP

### Program Leader | Shad Canada

- Dedicated **90+ hours/week** to facilitate a month-long STEAM program for student-led entrepreneurship projects
- Delivered a workshop on the applications and safety of AI, attracting **25+** students to attend a follow-up session
- Maintained a respectful audience of **64** high school students during long hours of lectures and workshops