

Douglas Chen

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EDUCATION

University of British Columbia

Bachelor of Science in Computer Science, Co-op program

Vancouver, BC

Sep 2023 – May 2027

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

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 Developer 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 Developer 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

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**, **100+ users**, **400+ submissions**, and **17-min avg sessions** through organic marketing

Free Food @ UBC | *TypeScript, React, Vite, Vercel, Google Analytics* | *Visit*

- Developed a platform to combat food insecurity for students by aggregating events with free food from **400+ orgs**
- Drove **3K visits** and **100+ active users** in under 2 weeks with a **\$0 budget** through social media platforms

AI Rubik's Cube Solver | *Python, PyTorch, Deep Q-Network* | *Code*

- Constructed RL algorithm to solve a 2x2x2 rubik's cube, achieving **99.6% solve rate** for under 6 mixes
- Reached an **85% solve rate** for under 10 mixes, demonstrating model generalization beyond training data
- Implemented Deep Q-Network with curriculum learning and target network stabilization using PyTorch
- Sped up training algorithm by **4x** through hyperparameter tuning and compressing the state representation

Portal Wizard | *Java, Object-Oriented Programming, JProfiler* | *Demo*

- Designed and developed a 2D portal game using Java, Object-Oriented Programming and LibGDX
- Optimized portal algorithm, **doubling** frame-rate; debugged memory leaks using JProfiler, reducing memory by **3x**

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