

Joshua Choong

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TECHNICAL SKILLS

Languages: Python, C, TypeScript, JavaScript, HTML, CSS, Java, LaTeX, Dart

Libraries and Frameworks: Pennylane, Scikit-Learn, Flask, Axios, Vite, Node.js, Flutter

Tools and Methodologies: Git, Docker, Cursor, Claude Code, Node.js, Jenkins, Agile Standups, Scrum, Jira, Linux

PROJECTS

RAG LLM Drone Chatbot · Python, Flask, ChromaDB, RESTAPI, Google Gemini API	Feb. 21, 2026
<ul style="list-style-type: none">Built a Flask-based web service and REST API that enforced source-cited answers and rate limits for safety.Created a RAG pipeline with chunking and a vectorized DB to serve source-cited answers on Canadian drone rules.Implemented an AutoImmunePipeline to detect data-poisoning and jurisdiction mismatches.	
Hybrid Quantum-Classical ML Classifier · Python, Pennylane, Quantum Computing, MLflow	Feb. 2026
<ul style="list-style-type: none">Developed a hybrid Quantum-Classical ml classifier, achieving a 7% improvement in accuracy over classical modelsUtilized pennylane to design and implement quantum circuits that processed data in a non-euclidean spaceApplied standard research software development policies including reproducibility, documentation, and git control	
Safe Biking Routes App · React, TypeScript, Python, Axios, Flask	Jun. 2025
<ul style="list-style-type: none">Developed a customized A* algorithm to create personalized route pathing, creating an optimal path that balanced the safety and expected time of arrival, optimizing the quality of experience for a diverse userbase.Implemented data-driven route pathing, avoiding historically dangerous intersections and prioritizing cyclist safety	
LifeCost AI · React.js, Axios, Flask, Vite, Node.js, Supabase	Mar. 2025
<ul style="list-style-type: none">Developed a full-stack application to assist users in achieving their life goals by providing personalized adviceCreated a frontend with React.js, Tailwind CSS, and Axios for API requests to a Supabase DB and Flask backendPrompted users to upload progress photos and analyzed them real-time by leveraging Google Gemini VisionPro, ensuring that users were on the right track and encouraging them to continue on the path to completing their goals	

EXPERIENCE

Campus Organizer @ Google Developer Groups on Campus - Guelph ON	Sep. 2025 - Present
<ul style="list-style-type: none">Selected by Google as the University's Campus Organizer, managing a developer group with 647 studentsIdeated and pitched initiatives to Google, securing funding for 5 technical workshops and a 36-hour hackathonOversaw the hiring and coordination of 13 personnel in Financial, Technical, Marketing, and Events departments	
Data Entry Assistant @ Hawkey Church Management - Mount Forest ON	May. 2025 - Sep. 2025
<ul style="list-style-type: none">Utilized Excel VBA and Google Maps API to generate graphical visualizations of the companies construction sitesWrote Python scripts to modernize databases, adding Optical Character Recognition on legacy documentsDesigned organizational tools for tracking and managing construction projects, improving efficiency by 70%	
Construction Worker @ Hawkey Church Management - Mount Forest ON	Jun. 2024 - Sep. 2024
<ul style="list-style-type: none">Adapted quickly in a fast paced environment, efficiently learning contemporary industry-level skills and techniques	

EDUCATION

University of Guelph	Guelph, ON
B.Comp. in Computer Science Co-op, Stats minor	Sep. 2024 - Apr. 2028
Relevant Coursework: Linear Algebra, Calc III, Statistics, Data Structures and Algorithms	GPA: 3.72/4.0

EXTRACURRICULARS AND VOLUNTEERING

Hackathon Coordinator @ Google Developer Groups on Campus	Sep. 2024 - May 2025
<ul style="list-style-type: none">Ran an event with 260 accepted applicants, coordinated 15 volunteers and secured \$5000 in fundingCo-directed several technical events including Webdev, React.js, Cloud Computing and Firebase WorkshopsComprehensively trained and led a team of volunteers to assist an average of 60 attendees per event	
Computer Science Club Leader	Sep. 2023 - Jun. 2024
<ul style="list-style-type: none">Mentored advanced students by teaching concepts such as graph traversal, dynamic programming and recursionFostered a conducive learning environment by promoting diversity and equality amongst members and attendeesIntroduced 40+ members to Python fundamentals, mentoring them in creating their own passion projects	