

CAINE PHUNG

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EXPERIENCE

Software Developer | Sep 2023 – Jan 2025

The Equitable Life of Canada

Waterloo, ON

- Developed reusable React/MUI components that improved consistency and reduced duplicate code across multiple internal applications.
- Introduced design tokens to centralize styles, making future UI changes easier and more scalable.
- Built and improved backend workflows in C# and SQL, including API endpoints, to streamline data handling and reduce processing time.
- Migrated 20+ legacy VBScript jobs to C#, cutting runtime from hours to under 30 minutes while improving reliability.
- Maintained and enhanced CI/CD pipelines in Azure DevOps and ActiveBatch, supporting stable and automated deployments.
- Worked closely with developers and QA in code reviews and debugging sessions to resolve production issues quickly and ensure maintainable code.

PROJECTS

Full-Stack RAG Chatbot | Python, FastAPI, AWS Bedrock, OpenSearch, S3

- Developed backend with FastAPI REST endpoints and integrated AWS services for retrieval and storage.
- Configured embeddings and chunking with OpenSearch to support scalable queries.
- Built browser UI to connect frontend with backend services.

ASL Sign Language Recognition App | Python, MediaPipe, PyTorch, OpenCV

- Built real-time webcam app to classify ASL letters (A-Z, including motion-based J and Z).
- Used MediaPipe for hand tracking and trained an LSTM model for sequence gestures.
- Implemented preprocessing pipeline to improve accuracy and responsiveness.

E-Commerce Website | Next.js, Sanity CMS, Vercel, TailwindCSS | caineshop.vercel.app

- Developed full-stack application with dynamic product management via Sanity CMS.
- Implemented responsive React UI with TailwindCSS, added animations, and optimized assets for performance.
- Built shopping cart and checkout system with secure API integration.

TECHNICAL SKILLS

Frontend: JavaScript, TypeScript, React, Next.js, TailwindCSS, HTML/CSS.

Backend: Python (FastAPI; familiar with Django), Node.js, Express.js, C#, .NET.

Databases: SQL Server, PostgreSQL, Supabase.

Cloud/DevOps: AWS, Docker, Git, Azure DevOps, ActiveBatch, CI/CD pipelines.

Other: REST API design, testing/debugging, logging/monitoring tools, PyTorch, OpenCV, MediaPipe.

EDUCATION

Congestoga College – Waterloo, ON

Advanced Diploma, Software Engineering Technology (Co-op) – Graduated with Distinction

2025

Additional Diploma: Mechanical Engineering Technology (Co-op)