

HYOSEO LEE

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science, Honours, Co-operative Program

Sep 2023 – Present

- Transferred from Honours Math to CS after 1st year; 92.33 cumulative GPA
- Relevant Coursework CS 245 (Logic and Computation), CS 246 (OOP), STAT 230 (Probability), MATH 239 (Combinatorics)

TECHNICAL SKILLS

Languages

Python, C, C++, JavaScript, TypeScript, SQL, HTML/CSS

Frameworks & Libraries

React, FastAPI, Astro, Expo, Pandas, Matplotlib

Tools & Platforms

Git, Docker, Ubuntu, AWS (EC2, RDS), DigitalOcean, Vercel, Cloudflare Pages

Databases & Services

PostgreSQL, Supabase, Stripe, Gemini API

Languages (Human)

English (Fluent), Korean (Native)

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900)

Jun 2024

Microsoft Certified: Azure AI Fundamentals (AI-900)

Jun 2024

EXPERIENCE

WE Accelerate — Azure & AI Stream

Remote

Microsoft-mentored Co-op Program | University of Waterloo

May 2024 – Aug 2024

- Designed an Azure AI pipeline for a medical diagnosis chatbot in a team-based Microsoft-mentored program; earned AZ-900 and AI-900 certifications

Republic of Korea Army (ROKA)


Gyeonggi, South Korea

Squad Leader & Fuel Supply Specialist | Mandatory Military Service


Oct 2024 – Apr 2026

- Led squad of 14 soldiers and managed fuel logistics operations during mandatory military service

PROJECTS


Waterloo Works AI Assistant | *TS, React, FastAPI, PostgreSQL, Stripe, Docker, Gemini API* |  May 2026 –

- Grew a Chrome MV3 extension into a published, monetized full-stack product (live on the Chrome Web Store) that scores WaterlooWorks co-op postings against a user's profile with Google Gemini, injecting 1–20 fit scores into the job table.
- Built a FastAPI backend on DigitalOcean (Docker) running Gemini scoring server-side, with Supabase Postgres + OAuth (Google/Microsoft) and a Stripe-backed credit system on an append-only ledger.
- Shipped a React/TypeScript web app on Vercel for account, profile, and billing, plus a page-bridge reusing the host's session cookies and CSRF tokens for authenticated posting fetches.

Macro Dashboard | *React, FastAPI, PostgreSQL, Docker, DigitalOcean* | 

Apr–May 2026

- Designed and deployed a production-grade customizable financial dashboard with drag-and-drop asset price widgets, sparklines, and live RSS news feeds from 22 sources.
- Deployed on DigitalOcean via Docker Compose with Caddy reverse proxy and auto-HTTPS; automated price and news refresh with background scheduler.

CxC Hackathon — Wildfire Analysis | *Python, Pandas, Matplotlib, ML* | 

Feb–Mar 2024

- Analyzed 22,000+ Alberta wildfire records; built an AI model to predict wildfire sizes using multiple ML algorithms such as linear regression, random forest, neural networks.
- **Won the MEF Award** for impact analysis on indigenous communities.

Dchup — Flashcard Web App | *React, FastAPI, AWS (EC2, RDS), PostgreSQL, Netlify* | 

Mar–Jul 2024

- Architected and built a full-stack Quizlet-like flashcard platform from scratch, implemented RESTful API with Python FastAPI, and user auth, flashcard CRUD, and study modes on a React frontend.
- Deployed backend on AWS EC2 with PostgreSQL RDS database and frontend on Netlify; implemented CI/CD pipelines for both