

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 Mathematics to Computer Science after 1st year with high academic standing of 92.33 cumulative GPA

TECHNICAL SKILLS

Languages	Python, C, C++, JavaScript, TypeScript, HTML/CSS, SQL
Frameworks	React, FastAPI, Astro, Pandas, Matplotlib, Pygame, SFML, Expo, Gemini API
Tools & Platforms	Git, Docker, Ubuntu, AWS (EC2, RDS), DigitalOcean, Cloudflare Pages, PostgreSQL
AI Tools	Claude Code, Gemini CLI, Stitch
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

- Collaborated remotely with a team to design a hospital integration pipeline for a medical diagnosis chatbot using Azure AI services
- Presented project deliverable to Microsoft mentors and Avanade staff at final showcase

Republic of Korea Army (ROKA)

Gyeonggi, South Korea

Squad Leader & Fuel Supply Specialist | Mandatory Military Service

Oct 2024 – Apr 2026

- Led a squad of 14 soldiers, overseeing daily operations, personnel coordination, and team performance
- Managed large-scale fuel logistics including diesel and gasoline supply via tanker vehicles for military units

PROJECTS

CxC Hackathon — Wildfire Analysis | *Python, Pandas, Matplotlib, ML* | [GitHub](#)

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* | [GitHub](#)

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

Empkl | *React, TypeScript, Vite, FastAPI, SQLAlchemy, PostgreSQL, Gemini API* | [GitHub](#)

Mar–Apr 2026

- Built at the request of a graduate-level Korean language instructor to address a real-life gap
- Integrated Google Gemini to generate slides, dialogs, and quizzes from vocab lists; modeled relational data with SQLAlchemy ORM

Macro Dashboard | *React, FastAPI, PostgreSQL, Docker, DigitalOcean* | [GitHub](#)

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
- Leveraged Claude Code as an AI engineering partner to architect, implement, and ship the full system solo — from planning to production deployment