HEUNGBIN OH

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SUMMARY

Versatile software developer with experience in **AI, C++, Python,** and **SQL**, specializing in building efficient software solutions and database design. Proven ability to **communicate with stakeholders**, and translate business needs into technical solutions.

EDUCATION

Computer Programming & Analysis: 3.8 GPA   **September 2023 - April 2026**
Seneca Polytechnic   **Toronto, ON**

TECHNICAL SKILLS

Languages:	**C++, C, Python, Java**	Database:	**MySQL, PostgreSQL, PL/SQL (MongoDB)**
WEB Development:	**React, HTML, CSS, TypeScript, JavaScript, Node.js, Express.js, Tailwind CSS**		
Framework:	**Django, Next.js, Streamlit, Flask**	DevOps:	**AWS (EC2, S3), Docker**
Tools:	**GitHub, Prisma, VScode, Postman, Jira**	Others:	**OpenAI, Linux Shell, Vercel, MS Office**

WORK EXPERIENCE

EC Studio Inc.   **January 2025 – April 2025**
Full Stack Developer   **Toronto, Canada**

- Engineered and led AI-powered vendor match-making system using **Python, OpenAI** (**RAG**), And **vector similarity search** (Reduced response time from **35-40 sec** to **6-8 sec** with fine-tuning).
- Designed back-end architecture with **AWS EC2, S3**, and **PostgreSQL (Prisma)**, supporting 300 expected users and user Authentication with **Google Auth** and **JWT**.
- Delivered a responsive and user-friendly front-end with **React, Next.js, and TypeScript**, including multi-step form submission, and user dashboard.
- Communicated closely with stakeholders to have **business requirements** and documented **technical specifications.**

PROJECTS

Back-End Airbnb Clone | **Python, Django, Django REST Framework**   **GitHub**   **August 2024**

- Highlights: **Python proficiency, Django, API test** (unit test), and admin section.
- Impact: Implemented RESTful APIs and designed entity relationships using **Django ORM** (13 models) and following **MVC** architecture to ensure scalable, maintainable backend system

Full-stack GPT | **Python, OpenAI, Langchain, Streamlit, etc**   **GitHub**   **July 2024**

- Highlights: **Fulltack GPT web services**, **data management, and LLM RAG**
- Impact: implemented **similarity search** to optimize token usage for SiteGPT efficiently, **reducing** process **time** by over **80%.**

LEADERSHIP

Seneca Hackathon Finalist   **GitHub**   **March 2025**
Seneca Polytechnic   **Toronto, ON**

- Selected as a Finalist in 33 teams among over 1000 participants for Food Insecurity in Canada.
- Implemented a Charity connect system between individuals and organizations using **React, MongoDB, and Gemini AI.**
- Verified and categorized users' pictures for donation using AI models.

Army   **May 2014 – February 2016**
Combat Engineer | 1st Engineer Brigade Headquarters   **Seoul, Korea**

- Demonstrated organizational skills by managing over 100 construction projects within the 1st Army Group.
- Participated in key operational training by leading a team under high pressure and in an agile environment.