

Dohee Kim

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EDUCATION

Sheridan College <i>Advanced Diploma in Software Development and Network Engineering (Co-op)</i> Relevant Courses: .Net Technologies using C# (90%), Linux/UNIX-Operating Systems (95%), Advanced Java Frameworks (96%)	Oakville, ON Jan. 2023 – Dec. 2025
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TECHNICAL SKILLS

Languages: Python, Java, C++, C#, SQL, JavaScript, TypeScript, PHP
Frameworks/Tools: Spring Boot, Flask, React, Angular, Bootstrap, Git, Linux, MQTT, TensorFlow
Databases/Cloud: MySQL, PostgreSQL, MariaDB, MongoDB, AWS, Azure

EXPERIENCE

Software Developer Co-op & Contract Part-time <i>UHN & Center for Applied AI, Sheridan College</i>	Aug. 2025 – Nov. 2025 Oakville, ON
<ul style="list-style-type: none">Built a modular Week–Day–Step content system using Next.js, React, and TypeScript.Implemented level placement logic (auto-promote/demote) based on previous week's average score; designed Supabase (PostgreSQL) tables and integrated them with a Next.js API backend.Wrote unit tests for API logic and React components using Jest to ensure features worked as intended.	
Software Developer Co-op & Contract Part-time <i>Locomobi & Center for Applied AI, Sheridan College</i>	Jan. 2024 – May 2024 / May 2025 – July. 2025 Oakville, ON
<ul style="list-style-type: none">Developed a smart parking system in Python using machine learning and object detection techniques to accurately track vehicle occupancyDesigned SQL database schemas to optimize data pipelines for vehicle details, enabling accurate tracking of parking durations and enhancing system scalabilityCollaborated effectively in a team environment, leveraging Git for version control to streamline workflows and ensure seamless integration of code changesDeveloped and optimized a fuzzy logic-based algorithm to match scanned license plates against entry records	
Develop at Ubisoft Mentorship Program <i>Ubisoft</i>	Nov. 2024 – Jan. 2025 Toronto, ON
<ul style="list-style-type: none">Participated in 1-on-1 mentorship sessions to enhance C++ programming skills while receiving guidance on career development in the tech industryProactively sought feedback and continuously improved technical skills during mentorship	
Software Developer Co-op <i>Korah & Center for Applied AI, Sheridan College</i>	Sep. 2024 – Dec. 2024 Oakville, ON
<ul style="list-style-type: none">Developed AI algorithms in Python utilizing State Machine architecture to predict hospital bed availability, reducing transfer decision time by 25%.Created a simulation animation with Python and Pygame to visualize patient transfers across hospitals, streamlining operational insights.Implemented unit tests to validate simulation accuracy and supported deployment processes.Collaborated with healthcare professionals to gather requirements, ensuring alignment with real-world operational needs.	

PROJECTS

Smart Waste Management System <i>Angular, Spring Boot, MQTT, MariaDB, Raspberry Pi</i>	⌚
<ul style="list-style-type: none">Selected as 1 of 10 projects out of 49 teams for the 2025 Sheridan Capstone Showcase.Developing a smart waste monitoring system that reduces bin overflow by sending real-time alerts to facility staff.Built an Angular frontend to visualize sensor data and manage bin statuses through a responsive dashboard.Implemented RESTful APIs and backend logic using Spring Boot, deployed on a Raspberry Pi.Configured MQTT protocol to enable real-time communication between Arduino-based sensors and the Raspberry Pi.	⌚
Movie Collection Management System <i>Python, Flask, PostgreSQL</i>	⌚
<ul style="list-style-type: none">Developed a robust backend system for managing movie collections using Python Flask and PostgreSQL, implementing CRUD operations for efficient data management.Integrated the Movie Database RESTful API to provide users with real-time access to movie details, enhancing user engagement.	⌚
Data Encryption Management (Bell Geekfest Hackathon) <i>Java, Spring</i>	⌚
<ul style="list-style-type: none">Collaborated with a team to design and implement a secure data encryption application using AES encryption techniques.Built features using Spring framework, ensuring data confidentiality and protection for sensitive user information.	⌚