Dohee Kim

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Experience

Software Developer (Co-op & Contract) — July 2025 – Dec. 2025
University Health Network (UHN) — *Toronto, ON*

- Architected a reusable Week–Day–Level–Step content framework in Next.js/React/TypeScript, scaling delivery to 17 weeks (3 levels, 5 days/week) with consistent rendering and structure.
- Developed one-click Excel export tool using Next.js/XLSX, standardizing reporting columns for research stakeholders and reducing report generation time by 50%.
- Engineered an automated backend system using Supabase (PostgreSQL) and Next.js, replacing manual workflows to save the team 70+ hours of operational time per week.
- Implemented Jest unit testing within GitHub Actions pipelines, enforcing quality standards that blocked failed merges and reduced regressions.

Develop at Ubisoft Mentorship Program — Nov. 2024 – Jan. 2025
Ubisoft — *Toronto, ON*

- Designed and developed diverse game projects using C++ under mentor guidance, incorporating innovative gameplay mechanics and scalable object-oriented design patterns.

Software Developer Co-op — Sep. 2024 – Dec. 2024
Korah — *Markham, ON*

- Formulated Python based decision-supporting algorithm using State Machine architecture, targeting a 25% reduction in decision time.
- Generated historical analysis charts in Python (Matplotlib), to visualize probability distributions and bed occupancy trends by month and year for research use.
- Analyzed large datasets using Python (Pandas) to identify a 50% efficiency optimization in logistics algorithms.
- Collaborated with healthcare professionals to translate complex criteria into structured thresholds, reducing subjectivity and improving consistency in patient allocation.

Software Developer (Co-op & Contract) — Jan. 2024 – May 2024
Locomobi — *Mississauga, ON*

- Engineered a smart parking system using Python and machine learning based object detection (YOLO) to track vehicle occupancy in a 20+ capacity parking lot.
- Structured SQL database schemas to optimize data pipelines for vehicle details, enabling accurate tracking of parking durations and enhancing system scalability.
- Implemented fuzzy logic algorithms to resolve license plate recognition mismatches by incorporating entry/exit data, improving record accuracy to 95%.
- Streamlined Agile workflows using Azure DevOps for task tracking and Git, implementing a CI pipeline for automated code reviews.

Education

Sheridan College — Jan. 2023 – Dec. 2025
Advanced Diploma in Software Development and Network Engineering — *Oakville, ON*

Technical Skills

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

Projects

Smart Waste Management System | *Angular, Spring Boot, Java, MQTT, MariaDB, Raspberry Pi*

- Awarded Top 10 of 49 teams in the 2025 Sheridan Capstone Showcase, recognized for project excellence, innovation, and technical skill.
- Constructed an interactive Angular frontend to visualize sensor data and manage bin statuses through a responsive dashboard.
- Designed and built RESTful APIs and backend logic in Java using Spring Boot, deployed on a Raspberry Pi.
- Configured MQTT to enable real-time communication between Arduino based ultrasonic sensors and a Raspberry Pi.

Movie Collection Management System | *Python, Flask, PostgreSQL*

- Developed a backend system for managing movie collections using Python Flask and PostgreSQL, implementing CRUD operations for efficient data management.
- Integrated the Movie Database (TMDb) API to provide users with real-time access to movie details, enhancing user engagement.