

Daniel Kim

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PROFESSIONAL SUMMARY

Computing Science graduate focused on data analytics, with hands-on experience in SQL, Python, Tableau, PostgreSQL, and full-stack web application development. Skilled in building data-driven projects, querying relational databases, developing dashboards, and translating technical results into clear business insights.

TECHNICAL SKILLS

Programming Language: SQL, Python, HTML/CSS, JavaScript, C, Java

Certification/Certificates: Microsoft Azure Fundamentals, Google Analytics Professional Certificate

Tools: VScode, Tableau, Jupyter Notebooks, Git, PostgreSQL, Android Studio, Microsoft Azure, Heroku

Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, k-means, PCA, Association Rule Learning, Causal Impact Analysis, Neural Networks

EDUCATION

University of Alberta

Edmonton, Alberta

BSc General, Major in Computing Science, Minor in Biological Sciences

June 2026

- **Concentrations:** Machine Learning and AI, Web Applications and Architecture
- **Related Coursework:** Machine Learning and AI, Data Structures & Algorithms, Statistics & Applications, Web Architecture, Object-Oriented Programming, Linear Algebra, Bioinformatics

PROFESSIONAL EXPERIENCE AND PROJECTS

AI SQL Analytics Agent

Self-Serve Analytics Project | Python, PostgreSQL, LangChain, SQLAlchemy

June 2025 - December 2025

- Built a self-serve analytics agent that enables users to ask plain-English business questions and receive SQL-backed answers from a PostgreSQL grocery retail database.
- Designed SQL logic for customer and transaction analysis, including joins, aggregations, date filters, transaction-level calculations, and safeguards against double-counting revenue.
- Tested and validated generated SQL queries using LangSmith traces and manual database checks, improving reliability of business insights for non-technical users.

Web Application Deployment & Architecture

Full-Stack Web Application

January 2026 – April 2026

- Designed and developed a full-stack web application as part of a web architecture project, implementing core client-server interactions and dynamic data handling
- Developed a cloud-hosted Flask and PostgreSQL application with REST API routing, structured data storage, and environment-based deployment configuration.
- Improved data organization and retrieval by designing a PostgreSQL-backed application structure with clean routing, environment configuration, and cloud deployment on Heroku.

Sejong Multicultural Centre Mobile Website

Front-end Developer

June 2025 - December 2025

- Built and maintained a bilingual community website with event listings, program previews, and announcements, improving public access to organizational information for Korean/English-speaking users.
- Architected a responsive client-side interface using HTML, CSS, and JavaScript, implementing WCAG accessibility standards
- Delivered a secure website that streamlined information access for community members, establishing a consistent digital presence for the organization. Website: <https://edmontonsejong.ca>

LEADERSHIP AND OTHER WORK EXPERIENCES

Edmonton Central Presbyterian Church, Edmonton Somang Church

Edmonton, Alberta

Worship Team - Piano, Synthesizer, Drum, Bass Guitar

August 2017 – Current

- Supported weekly team coordination and often having leadership role, adapted across many different roles to fill changing team needs

BB2 Korean BBQ House, Makchang Dodook K-BBQ

Edmonton, Alberta

Server/Host

October 2024 - Current

- Collaborated with team members to manage guest flow, communicating effectively with staff and customers to ensure smooth service in a fast-paced environment.