

Daniel Park

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EDUCATION

Western University

Honors Specialization in **Computer Science** and Minor in **Data Science**

Sep. 2021 – April. 2026 (Expected)

- Member of **Western AI**, **Western CS Undergraduate Society** and Events Assistant at Western Sneaker Club.

Relevant Courses: Databases, Operating Systems, Data Structures and Algorithms, Unstructured Data, Machine Learning, Statistical Programming

PROFESSIONAL EXPERIENCES

Data & Machine Learning Intern

Sept. 2025 – Present

HEAL

- Built a **data pipeline** to track **substance store activity** across neighborhoods by extracting data from multiple sources and integrating the **Google Places API** to detect duplicates, renames, and closures, ensuring dataset consistency.
- Developed **Python (pandas, NumPy, regex)** scripts to clean and standardize store names and addresses, which reduced inconsistencies and improved the quality of data used for analysis.
- Implemented structured storage workflows with version-controlled **CSV files** and schema validation to maintain dataset reliability and support long-term monitoring efforts.
- Applied **machine learning methods** such as clustering and time-series analysis to study neighborhood retail patterns and store density trends, and generated exploratory visualizations in **Matplotlib/Seaborn** to support further analysis.

Data Science Intern

Sept. 2024 – Aug. 2025

interRAI

- Utilized **SAS** to clean, validate, and prepare large-scale **interRAI health datasets**, ensuring accuracy and reliability of clinical data for research use.
- Automated data preparation workflows with **SAS SQL** and macros, reducing manual processing effort and decreasing runtimes by approximately **30%**.
- Produced **publication-ready outputs** in **Excel**, **Power BI**, and **R Markdown**, supporting the completion of multiple peer-reviewed research projects.

Front End Developer Intern

May 2024 – Aug. 2024

BERL

- Optimized website performance by refactoring **HTML/CSS** and customizing **Cascade CMS** templates, resulting in improved load times and streamlined content management.
- Enhanced site usability and engagement by implementing responsive layouts with **CSS Flexbox/Grid** and designing graphics in **Adobe Photoshop**.

Software Developer Intern

Sept 2023 – Apr. 2024

Cultureplex

- Developed **Python (pandas, NumPy)** and **SQL**-based tools to clean and analyze cultural datasets, helping researchers process information more efficiently for digital humanities projects.
- Improved **MySQL** database performance by normalizing schemas, adding indexes, and tuning queries, which reduced retrieval time and ensured reliable, consistent results.
- Built **ETL pipelines** with Python and regular expressions to transform unstructured text into structured formats, and created visualizations in **Matplotlib/Seaborn** that were shared with researchers through **Excel/CSV** outputs to support timely publications.

LEADERSHIP EXPERIENCES

Restaurant Manager

Oct. 2021 – Sept. 2023

Chung Chun Rice Dog

- Developed a structured **training program** with clear schedules and task checklists, ensuring new employees learned core processes step by step and as a result, the majority were able to reach proficiency within two weeks, improving overall team efficiency.
- Upheld **food safety and service quality** by inspecting daily shipments, monitoring compliance with standards, and providing on-the-job coaching, which reduced errors and supported consistent customer satisfaction.

PROJECTS | [View All](#)

Spellchecker Application | *Java, Java Swing*

- Developed a standalone **Java Swing** desktop application for **spellchecking text documents**; implemented file handling and integrated a **Trie data structure** for efficient word storage and fast lookups.
- Collaborated on project specifications and optimized **UI/UX design** to deliver a user-focused, high-performing solution with reliable text processing and responsive error detection.

TECHNICAL SKILLS & CERTIFICATIONS

Tech Stack/Tool: Python, Java, C, C++, C#, JavaScript, R, Bash, PHP, HTML/CSS, XML, AWS, Git, Azure, Django, .NET, Seaborn, Google Cloud

Databases: SQL, Firebase, MongoDB, SQLite, DynamoDB, PostgreSQL, Supabase

- Meta** Database Engineer Professional Certificate
- Meta** Backend Developer Specialization Certificate