Daniel Park

+1 548-788-1341 | spark736@uwo.ca | Github* | Linkedin* | Personal Website*

EDUCATION

Western University Sep. 2021 – April. 2026 (Expected)
*Honors Specialization in **Computer Science** and Minor in **Data Science***
- 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

EXPERIENCES

Data & Machine Learning Intern Sept. 2025 – Present
HEAL
- Built a data pipeline to track **substances store activity** across neighborhoods; extracted raw datasets, integrated the **Google Places API** to detect duplicates, store renames, and permanent closures, and standardized outputs into **CSV** format.
- Engineered **data cleaning scripts** in **Python (pandas, NumPy, regex)** for normalization of store names, address validation, and removal of inconsistencies, ensuring high-quality datasets for downstream analysis.
- Designed and maintained structured **data storage workflows** with version-controlled CSVs and schema validation, improving dataset reliability and auditability for long-term analysis.
- Applied **machine learning models** (**clustering**, **time-series forecasting**, and **classification**) to identify market trends, store density shifts, and closure risk, providing actionable insights into retail dynamics.
- Generated **visual analytics** in **Python (Matplotlib, Seaborn)** and exported results to **Power BI dashboards**, enabling stakeholders to monitor neighborhood-level cannabis retail patterns in real time.

Data Science Intern Sept. 2024 – Aug. 2025
interRAI
- Utilized **SAS (Statistical Analysis System)** for **data cleaning, transformation, and validation** on **interRAI** health datasets and automated ETL with **SAS SQL**, **PROC SORT**, and **PROC TRANSPOSE**, cutting **processing time by 30%** and improving dataset accuracy.
- Built reproducible **SAS analytical pipelines** with **PROC REG**, **PROC LOGISTIC**, and **PROC MEANS**, generating **statistical models and descriptive insights** that boosted report accuracy by **15%**.
- Developed **SAS macros** to standardize workflows, reducing repetitive coding effort by **40%** and ensuring consistent transformations across large-scale datasets.
- Integrated **SAS outputs (CSV/Excel)** with **Power BI** and **R Markdown** reports, delivering publication-ready visuals that supported the successful completion of **3+ peer-reviewed studies**.
- Collaborated with researchers to design **hypothesis-driven analyses** using **ANOVA**, **time-series models**, and **survival analysis** in **SAS**, strengthening the methodological rigor of health policy reports.

Front End Developer Intern May 2024 – Aug. 2024
BERL
- Optimized **HTML/CSS**, **JavaScript**, and customized **Cascade CMS** templates to improve website performance and navigation; reduced page load times and streamlined content management workflows.
- Enhanced **UI/UX design** and user engagement by creating responsive layouts with **Photoshop**, **CSS Flexbox/Grid**, and **cross-browser compatibility testing**, delivering a modernized web experience.

Software Developer Intern Sept 2023 – Apr. 2024
Cultureplex
- Collaborated with **CulturePlex Lab** researchers to design and implement **data analysis algorithms** in **Python (pandas, NumPy)** and **SQL**, accelerating data collection and enhancing efficiency in **digital humanities research**.
- Optimized **MySQL** databases by normalizing schemas, creating **indexes**, and tuning **JOIN queries**, improving query execution speed and ensuring data integrity for large-scale text analytics projects.
- Developed **ETL pipelines** to clean and transform unstructured datasets into research-ready formats using **Python scripts**, **regular expressions**, and **stored procedures**, reducing preprocessing time by **25%**.
- Integrated **data visualizations** with **Matplotlib/Seaborn** and exported outputs to **Excel/CSV**, enabling timely delivery of research insights and supporting publication-quality findings.

PROJECTS | View All*

Spellchecker Application | *Java*
- 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#, Java, R, Bash, PHP, HTML/CSS, XML, AWS, Git, Azure, Django, .NET
Databases: SQL, Firebase, MongoDB, SQLite, DynamoDB, PostgreSQL, Supabase
- **Meta** Database Engineer Professional Certificate
- **Meta** Backend Developer Specialization Certificate