

JOSHUA DESGAGNÉS

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EDUCATION

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Advanced Diploma

Burnaby, British Columbia

May 2025

- Geographic Information Systems (GIS)

<https://joshdesgagnes.github.io/gisportfolio/>

UNIVERSITY OF MANITOBA – ASPER SCHOOL OF BUSINESS

Bachelor of Commerce (Honours)

Winnipeg, Manitoba

Apr 2022

- **Majors:** Accounting, Management Information Systems (MIS)

TECHNICAL SKILLS & LANGUAGES

- **Technical Languages:** *Competent:* SQL, Python (ArcPy, Pandas); *Working Knowledge:* HTML/CSS, PHP, JavaScript.
- **Data Management & ETL Tools:** *Proficient:* FME Form; *Competent:* DBeaver, Azure SQL Database; *Academic Exposure:* Oracle 19c, PostgreSQL.
- **GIS & Visualization Tools:** *Proficient:* ArcGIS Pro, ArcGIS Experience Builder, ArcGIS Dashboards, QGIS; *Competent:* Apache Superset; *Working Knowledge:* AutoCAD, Tableau.
- **Languages:** Native proficiency in English and French.

WORK EXPERIENCE

RENTAL PROTECTION FUND

Geospatial Database Developer Intern

Vancouver, British Columbia

Apr 2025 – May 2025

- Led the design and implementation of a relational database in Microsoft Azure SQL Database with DBeaver to manage spatial and non-spatial housing and applicant data.
- Created automated ETL pipelines with FME Form to streamline data ingestion, validation, and integration.
- Deployed interactive dashboards using Apache Superset to support fast, ad hoc analytical querying of Azure SQL Database data, enabling management to access real-time business intelligence for decision-making and operational planning.

BOOKE & PARTNERS

Staff Accountant

Winnipeg, Manitoba

Jan 2023 – Aug 2024

- Prepared financial statements for reporting and tax purposes using Caseware and QuickBooks.
- Completed hundreds of tax returns for individuals, corporations, and trusts, along with corresponding tax slips.
- Managed high-volume tasks in a fast-paced environment, maintaining high-quality standards under demanding deadlines.

ACADEMIC PROJECTS

INCIDENT REPORTING WEB APPLICATION

Apr 2025

<https://github.com/joshdesgagnes/experience-builder-app>

- Developed a custom ArcGIS Experience Builder application using React, TypeScript, and ArcGIS Maps SDK for JavaScript, enabling community-sourced incident reporting with user location detection, image attachments, and form validation.
- Designed and implemented two modular, reusable widgets (map-view and vgi-feed) to support interactive map visualization, keyword-based filtering, and real-time data synchronization between user submissions and the map interface.

INFORMATION SYSTEMS STRATEGY

Apr 2022

- Conducted an analysis of a major Canadian transportation company's services and information systems, collaborating with the VP of Network Analytics & Development to create a proposal addressing industry and technology constraints.
- Produced a report highlighting the alignment between the company's current business strategy and their key information systems to validate the development of a strategic expansion.

CHESS DATABASE

Dec 2021

- Designed a database intended to view and manage collections of chess games for player preparation and analysis.
- Processed and transformed data from thousands of Portable Game Notation (PGN) files using Pandas, organizing it into CSV files for database integration.
- Created a GUI in MS Access for data retrieval and analysis (e.g., opening win percentages by colour, opening variation move orders, most prevalent opening variations).