

# Brian Kwon

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## Education

**British Columbia Institute of Technology**  
Computer Systems Technology, Diploma

Sept. 2022 - Dec. 2024  
Burnaby, BC

**Simon Fraser University**  
Bachelor of Applied Science, Engineering Science

Sept. 2015 - Dec. 2019  
Burnaby, BC

## Experience

### Data Analyst

*Transportation Investment Corporation*

May. 2023 - present  
Vancouver, BC

- Interpreted large datasets to extract patterns and relationships
- Conducted data cleansing, transformation, and validation to verify data accuracy and consistency
- Collaborated with cross-functional teams to provide insights for informed decision making
- Generated comprehensive reports to guide business strategy and adapt to a rapidly changing project environment
- Automated document import and indexing workflows via Document Import Processor (DIP), reducing manual processing time
- Wrote custom Python scripts to automate file handling, reshaping data, and organize into structured formats
- Designed and executed complex SQL queries to generate detailed reports, selecting relevant data for analysis and insight generation
- Technologies used: Excel, Python, SQL, OnBase

### Contact Tracing Aide

*Fraser Health*

Dec. 2021 - Apr. 2022  
Surrey, BC

- Contacted individuals exposed to COVID-19 on a weekly basis to ensure timely response and self-isolation compliance
- Tracked and monitored individuals' self-isolation progress, ensuring adherence to safety protocols
- Provided clear instructions and resources to individuals regarding COVID-19 symptoms, testing, and self-isolation procedures
- Maintained accurate records of communication and compliance for reporting purposes
- Assisted in establishing rapport and provided necessary support

## Projects

**CityStudio Connect** | *React, Next.js, Tailwind CSS, PostgreSQL*

Sept. 2024 - Dec. 2024

- Developed a full-stack collaboration platform to connect users from various municipal departments and academic institutions
- Engineered advanced search and matching functionality to connect projects with relevant academic courses and participants
- Designed and implemented a robust relational database with over 28 tables to manage users, projects, forms, and communications
- Integrated secure user authentication with role-based access control
- Collaborated closely with the client to gather feedback and adapt features to evolving project needs

**PDS Data Optimization** | *Python, TypeScript, Next.js*

May. 2024 - May. 2024

- Developed a dynamic and responsive web application to enhance user experience
- Automated the download and indexing of over 600 zoning and by-law documents, reducing manual workload
- Built a system to search and extract keywords from large document sets, outputting results in a clear, single-view Excel spreadsheet
- Implemented AI-driven tools to suggest policy amendments, including replacing outdated terms and generating rationales for changes
- Communicated with stakeholders to align development with project goals and user needs

**Abalone AI** | *Python*

Jan. 2024 - Apr. 2024

- Developed a state space generator to define legal moves for an AI agent, incorporating complex rules and ensuring valid gameplay actions
- Enhanced AI decision-making with a minimax algorithm and alpha-beta pruning, optimizing search efficiency and performance by dynamically adjusting search depth based on game progress
- Designed and implemented a dual-strategy heuristic evaluation function, balancing defensive positioning and aggressive moves to improve AI gameplay given the current board state

**Jayden Jump** | *Java, PApplet, MongoDB*

Jan. 2023 - Apr. 2023

- Designed and implemented game mechanics and features using external libraries and frameworks
- Performed rigorous testing and debugging to identify and resolve gameplay issues

**Acorn** | *HTML, CSS, JavaScript, Bootstrap, Firebase*

Sept. 2022 - Dec. 2022

- Developed a mobile personal finance application
- Led team of 3 students as team leader throughout 4-month project
- Demonstrated proficiency in implementing agile methodologies