

Jayden Joonseo Kang

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Education

University of Waterloo

Honours Computational Mathematics, Minor in Computer Science — GPA: 3.7

Jun 2025

Waterloo, ON

Pohang University of Science and Technology

Computer Science and Engineering

Feb 2023 – Jun 2023

Pohang, South Korea

Relevant Coursework:

- Artificial Intelligence
- Computer Applications in Business: Databases
- Numeric Computation for Financial Modeling
- Computational Statistics and Data Analysis
- Algorithms
- Object-Oriented Software Development

Experience

Data Analyst

Jan 2024 – Apr 2025

Tri-County Mennonite Homes

Waterloo, ON

- Restructured company Power BI dataset using SQL and M to configure data schema and improve load speed by 180%
- Configured ODBC connection to ingest payroll data, allowing for key insights into salary management
- Collaborated with cross functional teams to implement scalable analytics infrastructure supporting monthly reviews
- Conducted data analysis using linear regression and clustering techniques, presenting findings to the Board and Executive Suite, supporting expense management strategies and union negotiations

Projects

VoteSecure | JavaScript, Solidity

Feb 2023 - Jun 2023

- A Blockchain based voting DApp that allows users to participate securely in multiple voting sessions
- Used MERN stack (MongoDB, Express.js, React.js, Node.js) to build front and back end portion of the application
- Votes are secured using smart contracts written in solidity to ensure authenticity and integrity of the vote

Stat Prediction | Python

Dec 2022

- Built a machine learning model to predict a baseball player's Wins Above Replacement value for the next season
- Optimized prediction by minimizing error caused from various sources such as injuries, outlier seasons, etc..

Watopoly | C++

Dec 2021

- Console based implementation of the game Monopoly with a Waterloo theme, programmed using observer design pattern

Technical Skills

Programming Languages: Python, R, Java, C, C++, JavaScript, HTML, CSS, LaTeX, Unix Shell

Data Analysis: Pandas, NumPy, Scikit-learn, PyTorch, R (tidyverse), MS Excel, Power BI, Tableau, dbt

Data Systems: SQL, MySQL, NoSQL, MongoDB, Snowflake, ODBC, M

Frameworks and Libraries: React.js, Node.js, Express.js, Bootstrap

Cloud and Tools: Microsoft Azure, AWS, Google Cloud Platform, VS Code, MS Office, Git, LaTeX

Other

Varsity Esports

Jan 2021 - Sep 2022

Player

Waterloo, ON

- Varsity Overwatch player for the Waterloo Warriors esports team
- Champions of the Ontario Post-Secondary Esports Overwatch tournament in 2021 (OPSE)
- Top 24 in the North American Collegiate Cup (OWCC), defeating many full scholarship American teams with no funding

Blizzard — Overwatch League

July 2021 – August 2021

Translator

Vancouver, BC

- Established a bridge for communication between management and the players of the team

Hobbies: Filmmaking, Photography, Computer building, Sports, Competitive Gaming, Esports