

JASON ZHANG



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SKILLS

Languages: JavaScript, Python, Java, SQL, VBA, HTML/CSS

Technologies: Git, React, Node.js, TensorFlow, MongoDB, MySQL

Applications: Excel, Figma, Tableau, Power BI, Illustrator, Photoshop

PROJECTS

Campfire

- Developed a full-stack social media web application where users connect with each other through daily journaling. Included key features such as emoji reactions and user profiles.
- Designed the UI/UX for application webpages and implemented the design with **React.JS** and **Tailwind CSS**.
- Stored and integrated user analytics in the back-end with a **SQLite** database using **Python**.
- Established a secure login system by utilizing **JWT** to authenticate users and **bcrypt** to encrypt passwords.

Portfolio Website

- Created a responsive website using **HTML**, **CSS**, **JavaScript**, and **Bootstrap** to showcase projects and extracurriculars.
- Designed a **UI/UX** gallery display for iOS and web application prototypes using **Figma** and **Illustrator**.

Decision Support Tool

- Developed an **Excel VBA** task management and adaptive scheduling system to automate task delegations in a meeting.
- Directed a team of 4 as the technical lead and applied **Agile methodology**, working in iterative cycles to meet target milestones.
- Conducted user research, gathered client requirements, and assessed existing workflows to design prioritization algorithms.
- Application streamlined client's team meeting efficiency and notably increased on-time completion rates.

Math Garden

- Engineered a neural network using **TensorFlow** to classify handwritten number digits for an interactive math game.
- Defined operations for performance metrics and pre-processed datasets to train model. Achieved **80%** classification accuracy.
- Integrated the model as a JSON file onto a web interface, and dynamically rendered game components using **JavaScript**.

EXPERIENCE

Data Analyst @ Graduate Studies & Postdoctoral Affairs

Apr 2021 - Present

- Generated advanced Power BI dashboard reports providing insights and analytics needed to guide critical admission decisions.
- Developed a comprehensive understanding of data warehousing methodologies including Star and Snowflake schemas.
- Wrote various ad-hoc SQL queries to extract data while maintaining the integrity and security of the database.
- Proficient in utilizing Excel Query and Pivot tools to perform ETL processes and prepare large amounts of data.

Director of Public Relations @ Industry 4.0 Design Team

Sep 2020 - Present

- Organized a data-driven case competition promoting the concepts of optimization, data analytics and operations research to **160+ competitors** across Canada.
- Planned publicity strategies and presented sponsorship pitches to finance team expenses, securing over **\$4000** in funds.
- Leading a web development team as the project manager to renovate the official website.

Lead Server @ Miga Korean Restaurant

Feb 2019 - Mar 2021

- Coordinated team efforts to deliver quality customer service and quickly adapted to resolve issues in difficult circumstances.
- Appointed as a lead server and was responsible for training new employees in standard operating procedures.

EDUCATION

University of Waterloo

Sep 2020 - Apr 2025

- BAsC Candidate for Honours Engineering
- GPA: 4.0 (94%) - 2/107 Class Rank