JASON ZHANG

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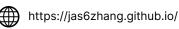https://jas6zhang.github.io/
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SKILLS

Languages: JavaScript, Python, Java, SQL, VBA, HTML/CSS
Technologies: Git, React, Node.js, Firebase, TensorFlow, MongoDB, SQLite
Applications: Excel, Figma, Tableau, Power BI, Postman, Premiere, Google Cloud

PROJECTS

Campfire

- Collaborated with a team of 3 to develop a social media application where users connect with each other through daily journaling.
- Designed the UI/UX for application webpages and implemented the design with **React.JS** and **Tailwind CSS** frameworks.
- Created API endpoints with **Python Flask** and stored user information in a **SQLite** database.
- Established a secure login system by utilizing **JWT** to authenticate users and **bcrypt** to hash passwords.

Detective Duck (Winner of Hack the 6ix - Accenture: Most Innovative Use of Tech)

- Created a real-time phishing detection application that prevents targeted children from clicking malicious links on the web.
- Pre-processed dataset and deployed the regression-based machine learning model on **Google Cloud**.
- Worked with web scraping tools such as **Selenium** to extract link information and served API requests to the Cloud functions.
- Designed a responsive, user-friendly GUI based on mouse and keyboard detection.

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.

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 Python scripts using pandas to automate various data cleaning and ETL procedures in Excel.

Director of Public Relations @ Industry 4.0 Design Team
Sep 2020 - Present

- Designing 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 **$1500** in funds.

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.

Chairman @ Oakville Youth Action Committee
May 2019 - Mar 2020

- **Led a 15-member committee** to empower the voices of teen across Oakville through the advocacy of youth initiatives.
- Directed mental health wellness events at local high schools and established peer support groups.
- Worked alongside the Culture & Recreation department to curate new drop-in programs. Increased program engagement by **60%**.
- Organized workshops and campaigns with Halton Environmental Network to raise collective awareness on sustainability.

EDUCATION

University of Waterloo
Sep 2020 - Apr 2025

- BASc Candidate for Honours Management Engineering
- GPA: 94.1% - Dean's Honour's List
- Mon Sheong Golden Jubilee Scholar