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https://github.com/jas6zhang

SKILLS

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

Technologies: Git, React, Node.js, Flask, MongoDB, Firebase, MySQL, Pandas, TensorFlow

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Applications: Figma, Postman, Google Cloud Platform, Excel, Tableau, Power BI, Premiere, Photoshop

EXPERIENCE

Software Developer Intern @ Phyxable

(Part-time) Jun 2021 - Present

- Developed online physiotherapy solution components using React, MongoDB, Express, Node.js and implemented various APIs.
- Coordinated with product manager and designers in Agile sprints to develop maintainable software according to client needs.
- Tested software using unit and integration testing to debug application and ensure a smooth user flow through the platform.

Data Analyst @ Graduate Studies & Postdoctoral Affairs

(Co-op) Apr 2021 - Aug 2021

- Generated Power BI dashboard reports communicating insights and analytics needed to guide critical admission decisions.
- Optimized SQL queries and developed a comprehensive understanding of data warehousing methodologies and schemas.
- Wrote Python scripts using pandas to automate various data cleaning and ETL procedures in Excel.
- Led survey distribution and data analysis project gathered from a sample size of more than **5000** accepted applicants.

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 \$2000 in funds.

PROJECTS

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 using the PyAutoGUI library.

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.

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.

VizualDB 🗹

- Developed a command-line tool designed to aid programmers in solving data structure and algorithmic problems.
- Utilized Python modules to create a debugging tracer and access variable information stored by the interpreter.
- Designed the terminal and implemented dynamic visual cues of different data structures such as Linked Lists and Binary Trees.

EDUCATION

University of Waterloo

Sep 2020 - Apr 2025

- BASc Candidate for Honours Systems Design Engineering
- · Mon Sheong Golden Jubilee Scholar