Tyler Chen

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Summary of Qualifications

- **Languages:** HTML, CSS, JavaScript, Java, Python, VBA, LaTeX
- **Tools/Libraries:** React.js, Node.js, Express.js, PostgreSQL, Bootstrap, Git, Microsoft Office

Projects

Facial Recognition App

REACT.JS, CSS, NODE.JS, EXPRESS.JS, POSTGRESQL

- Used React.js and CSS to design the components of the front-end of the app
- Used Node.js and Express.js to establish the back-end of the app and route endpoints; used Git to push app to Heroku
- Created a RESTful API that works in conjunction with a relational database designed with and managed by PostgreSQL to drive user registration and authentication
- Integrated a machine learning API to be utilized by the app to detect faces in images

StarterHacks 2019 - QuickSense

HTML, CSS, JAVASCRIPT, BOOTSTRAP

- Built website using HTML, CSS, and JavaScript while using Bootstrap for speed and efficiency
- Assisted in the development and pitch of QuickSense, a device that uses machine learning and object recognition through OpenCV to assist the visually impaired in the retrieval of essential items

Budget Boxhead

PYTHON

- Created a 2D shooter game using Python and the Pygame library
- Implemented various Object-Orientated Programming fundamentals such as the design of each sprite class with differing methods
- Designed game logic to challenge players with more difficult enemies and reward them with power-ups as the game progresses

Project Management Tool

VBA SCRIPTS, MACROS

- Built a decision support tool aimed to assist managers with scheduling and executing team projects, as well as facilitate the monitoring of task progression

Work Experience

Top Notch Tutoring   *Jun. 2018 - Aug. 2018*

OPERATIONS ASSISTANT | TUTOR

- Applied accounting practices, such as the management of invoices and receipts, to ensure the accurate upkeep of financial records
- Coordinated marketing initiatives such as contacting partners and media outlets, as well as designed business cards and banners
- Performed administrative duties such as the organization of documents and data entry
- Tutored and oversaw academic progression of clients by leading lessons and generating individualized assessments

Extracurricular Activities

Waterloo Formula Electric - Operations Sub-Team   *Sep. 2018 - present*

PROJECT MANAGER | OPERATIONS MEMBER

- Provided planning and logistical support to manage projects initiated by the Electrical sub-team
- Managed team website, providing maintenance and updating relevant sections when necessary
- Performed marketing duties such as the design of posters; designed and sourced suppliers for team polo

Education

University of Waterloo | Honours Management Engineering   *CGPA: 84.18*

B.ASC CANDIDATE, 2018 - 2023