MATTHEW CURTIS

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EDUCATION

McMaster University - Hamiton, ON

Software Engineering and Management (B.Eng.Mgt) CGPA: 10.5/12.0 (3.80/4.00)

Sept. 2018 - Apr. 2024

SKILLS

LANGUAGES: Swift, Python, Java, C#, HTML, CSS, C, JavaScript, SQL, MATLAB

TECHNOLOGIES: Node.js, Git, React, Bootstrap, Scikit Learn, Pandas, Selenium, SSH, Express.js, Linux, db2, .NET 4.5, Bash, GitHub, GloVe, NumPy

EXPERIENCE

STOCCS Inc., Lead Developer of Mobile Application Team

May 2023 - Current

- Developed and released an IOS mental health and self improvement productivity mobile application "HabitPal: Build, Track, Thrive" that helps users build, track and maintain good habits and break bad ones using scientifically proven methods
- Developed in Swift, incorporating UserDefaults for efficient storage, manipulation, and real-time updates of user data

Old Republic Insurance Company of Canada, Software Engineering Intern

May 2021 - Aug. 2022

- Analyzed data from thousands of data points through advanced CSV parsing to develop an automated testing framework for integration and regression testing using C#, saving over 200+ hours of manual labor annually
- Developed a user-friendly Selenium-based testing system using C# and NUnit for efficient integration testing before each deployment
- Designed an intuitive **Angular frontend** and testing framework to empower testers in creating their own Selenium-powered automation suites

Conservation Halton, Camp Counsellor

July 2016 - Aug. 2020

- Demonstrated excellent problem solving and creativity to ensure that all campers had an engaging active experience
- Exhibited strong verbal communication skills to prevent poor camper behaviour along with managing conflicts and concerns raised by parents in an ethical and professional manner

PERSONAL PROJECTS

NLP-Based Mental Health Disorder Detection

- Led projects using NLP techniques, including BERTopic modelling and GloVe embeddings, to detect early signs of mental health disorders
- Engineered feature vectors by leveraging TF-IDF and cosine similarity metrics, managing data from over 500k+ data points in an end-toend machine learning pipeline to facilitate predictive scaling and conducted in-depth data evaluation
- Conducted thorough error analysis by comparing predicted scores to ground-truth data to improve the models

SpotiStat (Spotify API)

- Developed a **web-based** application enabling users to access statistics on their listening history
- Established a responsive and interactive application interface using React, paired with JavaScript and Node.js, hosted through Vercel
- Utilized the Spotify Web API to fetch user and song data including the users listening history, top played artists and songs etc
- Implemented Spotify account login and credential verification using Node.js with Express.js, incorporating OAuth2 authorization

Tagwell

- Developed an Android application to gauge Twitter hashtag popularity, providing real-time insights into social media trends
- Parsed 100,000 data points from JSON files, graphing past tweet data with BFS and merge sort algorithms

ACTIVITIES

University Intramural Sports

2019 - 2024

Organized and participated in various intramural teams at McMaster, including soccer, football, floorball, and dodgeball

Highschool Football, Quarterback and Captain

2014 - 2017

Led as quarterback and captain, contributing to overall success through teamwork both on and off the field.