VIVEK UPADHYAY

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SKILLS

Proficient Technical Skills Libraries Python, Vex Pros, R, HTML5/CSS3, JavaScript, Solidity, SQL

Pandas, Matplotlib, Numpy, BeautifulSoup, React.js, Node.Js, TypeScript

EXPERIENCE

Fullstack Developer Intern

May 2023 - Aug 2023

Manulife (University of Waterloo WE Accelerate Program)

- Engaged as a versatile fullstack developer within the esteemed University of Waterloo WE Accelerate Stream at Manulife, skillfully harnessing the power of TypeScript, Docker, Python, Flask, React, Node.js, Jest, and RESTful APIs.
- Employed an expansive array of cutting-edge technologies, expertly crafting solutions that were not only highly efficient but also imbued with responsive design principles, thereby making a substantial and valuable contribution to Manulife's projects throughout the duration of the internship.

Co-founder/Lead Developer

July 2023 - Present

Adviceu.ca

- Co-founded a transformative high school mentorship platform, leveraging React, Node.js, TypeScript, and Firebase to seamlessly match students with mentors based on personalized criteria.
- Engineered a secure Stripe integration for seamless payments and utilized email.js to enhance mentor-student communication while ensuring secure logins through Firebase. resulting in hundreds of applicants.

PROJECTS

RoboMetrics (Backend: Python; Tools: BeautifulSoup, Pandas, Numpy, Matplotlib)

- Developed a data analysis tool in Python using **BeautifulSoup**, **Pandas**, **Numpy and Matplotlib** that automated the analysis of **10000+** robotics teams' data, reducing manual analysis time by **100s of hours**.
- Utilized web scraping to gather data from a database and sorted it into graphs and charts that were used for statistical analysis performed by a team of over **20 researchers**.

Spotify Higher-Lower(Fullstack: React.js, Node.js, Express.js, TypeScript, RestfulAPI)

- Utilized Test-Driven Development (TDD) and followed programming best practices to construct a Spotify Higher-Lower game. Ensured code quality through rigorous testing, resulting in a robust application.
- Employed a cutting-edge tech stack, including web scraping, RESTful API architecture, Spotify API integration, React, Express, and AWS deployment. Extracted monthly listener data for 2500 artists, enabled random artist retrieval, and dynamically fetched detailed information, delivering an engaging game experience.

EtherTask (Back-End: Solidity, Ganache, Node.js, Web3.js JavaScript, HTML, CSS)

- Implemented a decentralized to-do list application on the Ethereum blockchain using Solidity, Truffle, React, and Web3.js, showcasing proficiency in blockchain development, smart contract programming, and front-end integration.
- Utilized event handling in the smart contract code to enable real-time updates and notifications, ensuring users receive instant feedback when tasks are added or marked as complete.

EDUCATION

Candidate for **Bachelor of Honours Mathematics**, University of Waterloo Achievements: University of Waterloo President's Scholarship of Distinction Clubs: Data Science Club, Computer Science Club, Economics Society

Expected May 2027