Darsh Shah

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Education

University of Waterloo

Sep. 2023 - Present

Bachelor of Software Engineering, Co-op

Waterloo, Ontario

- Guo Family Engineering Scholarship and President's Scholarship of Distinction
- Relevant Coursework: Intro to Data Structures and Algorithms, Data Abstraction and Object-Oriented Programming, Methods of Software Engineering, Linear Algebra, Linear/Digital Circuits

Skills

Languages: Python, C, C#, C++, JavaScript, SQL, HTML/CSS

Frameworks/Libraries: React.js, Angular, ASP.NET, Node.js, Flask, OpenCV, NumPy, TensorFlow, Pandas, Bootstrap

Tools: Git, Bash, Docker, Azure, GraphQL, MySQL, Figma, Jupyter Notebook, Firebase, Arduino, Linux

Experience

Software Developer Intern

May 2024 - Aug. 2024

ComputerTalk Technology

□

Thornhill, Ontario

- Created a client reporting system that logs message and call history with Angular and C#, improving data accessibility
- Resolved critical bugs on the Journal page related to file hierarchy parsing, correcting the display of LOB entries
- Generated reports 22% faster by replacing SAP with Telerik UI, upgrading company-wide reporting architecture

Software Engineer Intern

May 2022 - Aug. 2022

Nu Vision Metals ♂

Scarborough, Ontario

- Boosted website traffic by 27% through a site revamp, incorporating UI/UX research and industry metrics analysis
- Reduced deployment time by over 50% via a GitHub Pages CI/CD pipeline for streamlined version control
- Achieved a 24% reduction in bounce rate through A/B tested cross-platform designs with Figma and CSS

Projects

Vibe □ | Python, React, NumPy, Transformers, Whisper API, Spotify Web API

- Built a mood detection platform that transcribes audio clips and performs sentiment analysis to evaluate emotion
- Designed a data pipeline to handle real-time, scalable analysis results for seamless client-server communication
- Launched a React app that recommends mood-personalized music playlists from over 100M songs via the Spotify API

DetectGPT □ | Python, HTML/CSS, Flask, PyTorch, spaCy, GPT-2

- Developed a LLM-content detector, incorporating NLP techniques to detect AI-generated text with 87% accuracy
- Calculated sentence perplexity by comparing GPT-2 next-word predictions with inputted text to quantify text variability
- Evaluated burstiness by calculating perplexity deviation across sentences, reducing detection error by 21%
- Deployed Flask server to handle requests between the web UI and Python-based backend, ensuring a seamless UX

J.P. Morgan Trader Dashboard & Python, TypeScript, HTML/CSS, Perspective

- Predicted potentially misvalued stocks using historical correlation in the J.P. Morgan Software Engineering Experience
- Generated clear and visually appealing live graphs using the Perspective library to display data for traders to monitor
- Developed a data processing pipeline using Python and Pandas, resulting in efficient analysis of large financial datasets

Leadership

President WolfHacks

June 2022 - June 2023

Brampton, Ontario

- Led 26 members in a cross-functional team to organize the largest hackathon in the Peel District School Board
- Secured over \$50,000 in funding from Rogers and the CSA by crafting and presenting compelling sponsorship proposals
- Coordinated prizes, merchandise, and venues for 800+ participants, growing interest in the SciTech program 12% YoY