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

- Migrated client reporting software into a managerial platform using Angular and C#, streamlining data accessibility
- Improved loading speed by 10% with a Journal page transition to Angular, promoting component-based architecture
- Created MVP and documentation for a new Reports page with Telerik UI, following the SDLC using Azure DevOps

Software Engineer Intern

May 2022 - Aug. 2022

Nu Vision Metals ♂

Scarborough, Ontario

Brampton, 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 wireframes with Figma and CSS

Projects

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

- Integrated the Whisper API and Twitter Roberta sentiment model for an audio-based mood detection platform
- Engineered a data pipeline with HTTP methods to transmit analysis results for scalable client-server communication
- Launched a React app that recommends mood-personalized playlists from over 100M songs via the Spotify Web 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

- Identified stock misvaluations using historically correlated stocks 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

WolfHacks

President June 2022 - June 2023

- Led 25+ 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