Danial Ahmad

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Education

University of Toronto Toronto, ON
Bachelor of Applied Science, Computer Engineering *Expected April 2024*

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Rust, Angular, Typescript
Frameworks: React, Node.js, Flask, JUnit
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Tomcat, SOAPUI, RAD

Experience

Software Developer May 2022 – August 2023
Intact Financial Corporation *Toronto, ON*

- Improved and developd software systems to meet users' needs by finding solutions, solving complex problems, coding, testing, debugging and documenting systems
- Took part in Production Support activities, troubleshooting production issues performance bottlenecks and identifying fixes.
- Created and maintained RESTful APIs
- Employed Agile methodologies to work efficiently within a team.

Projects

Financial Report LLM Agent | *Python, Node.js, React*

- Developed a financial report LLM agent using LangChain and GPT-4, streamlining access to 10-K and 10-Q reports for clients.
- Integrated NLP techniques to create a user-friendly chatbot interface that interprets complex financial data and presents reports effectively.
- Created a user-friendly interface using React and Node.js, supported by a Pinecone database, enhancing accessibility and usability for clients.

Event Hub | *Python, MongoDB, Express.js, React, Node.js*

- Worked with a team to develop a university event platform, enabling students to RSVP and organizers to manage and post events securely.
- Integrated university's login system for enhanced security, ensuring trust and accessibility.
- Designed user-friendly UI with Figma, iteratively improved based on user feedback.

Tweet Veracity Checker | *C++, numpy, TensorFlow*

- Developed using numpy and TensorFlow, harnessing deep learning techniques to analyze and classify tweets for their authenticity and accuracy.
- Designed and implemented a robust data collection system by leveraging the Twitter API for web scraping
- Utilized natural language processing (NLP) techniques to preprocess and clean the textual content of tweets, enhancing the model's ability to understand and classify information.
- Conducted extensive model evaluation and fine-tuning, implementing techniques such as cross-validation and hyperparameter tuning to optimize model performance and minimize false positives/negatives.

MapIt | *C++*

- Graphical Information System (GIS) of various cities around the world.
- Utilises the OpenStreetMap API and OpenGL as a basis to provide route planning, points of interest and search functionality.
- Route planning was implemented through a Dijkstra-A* hybrid algorithm, and further enhanced with 2-opt, multi-threading and simulated annealing.

Activities

University of Toronto Grappling Club 2022, 2023
University of Toronto Formula Racing Team Electrical Team 2020