Rushi Chaudhary

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TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, GraphQL, Dart, HTML/CSS, R, Verilog
Frameworks: React.js, Node.js, Express.js, Flask, Flutter, JUnit, Svelte , JavaFX, Django
Developer Tools: Git, Docker, Firebase, AWS, Postman, VS Code, PyCharm, IntelliJ, Eclipse, Android Studio
Libraries: Tensorflow, Keras, Qiskit, Pennylane, Pandas, NumPy, Matplotlib

EDUCATION

Memorial University   Sep 2021 – Present
Bachelor of Science in Computer Science and Applied Math   *St. John's, NL*

Atlantic Association for Research in the Mathematical Sciences.   Aug 2023
Summer School in Infectious Disease Modelling (EIDM)   *St. John's, NL*

PROJECTS

LeetFights | *React, Node.js, GraphQL, Socket.IO, Docker*
- Developed a web-based app for 1v1 coding contests. Allows users to compete online on LeetCode-style problems.
- Designed a React-based frontend with Socket.IO and Node.js for the backend and GraphQL for a faster API, reducing server response time by **54%** .
- Deployed a rich text editor featuring syntax highlighting and advanced search with support for python and Javascript, improving code readability .
- Leveraged Docker to containerize backend services, resulting in a a more streamlined deployment.

Dear Diary | *Flutter, Dart, Firebase, HiveDB, OpenAI API*
- Created a versatile, easy-to-use, personalized diary app that enables user to create daily logs.
- Introduced features such as daily and monthly rating, cover photos, OpenAI text stylization and PDF Export.
- Used Firebase to add daily reminder notifications resulting in a **42%** increase in consistency.

Finance 101 | *Flask, Python, SQLite, IEX API*
- Engineered a web based app to learn stocks trading using an educational stock trading account.
- Implemented API to enable users to get real-time stock prices.
- Employed SQLite for a faster and consistent database to store user portfolios and transaction history.

Can't Stop | *Java, Swing, MarkDown*
- Developed a Java Swing implementation of the 80's board game Can't Stop.
- Implemented options for PvP and PvAI mode of play and enhanced the visuals resulting in a more positive user experience.
- Improved the accessibility with options such as color themes and other audio cues.

EXPERIENCE

Undergraduate Research Assistant   Apr 2024 - Sep 2024
Memorial University - Department of Mathematics   *St.John's, NL*
- Explored the integration of machine learning in system dynamics to enhance predictive performance.
- Prepared visualizations of critical bifurcations in predator prey population models.
- Utilize GitHub for a collaboration with peers and supervisor.

Student Researcher - Ethics in Autonomous Vehicles   Sep 2024 - present
Memorial University - Department of Computer Science   *St.John's, NL*
- Performed literature survey and read papers to get introduced to autonomous vehicles and their driving capabilities.
- Explored embeddings in AV driving behavior with focus on imparting good driving behavior in them.

CERTIFICATIONS AND ACHIEVEMENTS

- **AWS** - AWS Certified Cloud Practitioner (2023)
- **Udemy** - C++ intermediate proficiency (2021)
- **Memorial University** - Faculty of Science Dean's List 2021-22 and 2022-23