Shalin Patel

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EXPERIENCE

PAGERDUTY | Software Engineering Intern

• Mobile Core team

May 2021 - Present | Toronto, ON

PRONTI AI | Software Engineering Intern

January 2021 - April 2021 Kitchener, ON

- Lead Android developer of flagship Android application using Java following MVP architecture, deployed to 5000+ users.
- Created **regression testing** system for flagship android application using Java, JUnit, Mockito, and Espresso allowing for the discovery of **>50** bugs and inefficiencies.
- Decreased time taken for backend requests by 80% using Flask and PostgreSQL.

DOPPL INC | Software Development Intern

May 2020 - August 2020 | Kingston, ON

- Implemented a **route optimization algorithm in C++** similar to the Travelling Salesman Problem, achieving **O(nlog(n)) runtime** for the average client use case.
- Created a consumer application for 1000+ users using React Native, Apollo GraphQL, and Golang.
- Constructed a client front-end for asset tracking and routing using **React** and tested using **Jest**.
- Developed admin dashboard using **React**, **Node**, **Express**, **and MongoDB** creating effective control of critical database tables.

ONTARIO MGCS | Infrastructure Technologies Services Co-op May 2019 - August 2019 | Toronto, ON

- Worked with IBM's Privileged Identity Manager to handle access management for the secure data servers at the Data Center Operations sector in MGCS.
- Designed an algorithm and developed a GUI to successfully automate the process of user modifications in PIM **achieving ~35 reduced man-hours per week**.
- Optimized SQL gueries in SSMS sent through PowerBI reports achieving a 7-fold decrease in time.

PROJECTS

MOODIFY | Hacklytics 2021

Python, text2emotion, Spotify API, Twitter API

- A python bot which tweets a generated spotify playlist based on the emotions captured from a tagged tweet using text2emotion.
- Won Best Machine Learning Hack at Hacklytics 2021.

SOLAR POWER GENERATORS

Python, Pandas, Matplotlib, Scikit-learn

- Program that successfully predicts power generation and irradiation of solar panels with **88% accuracy**.
- Cleaned data using pandas, detecting for missing values and replacing them with their respective means.
- Performed EDA using MatPlotLib to graph the data, identify trends and form initial hypotheses.
- Implemented DecisionTree and **XGBoost Regressor** models using **Scikit-Learn** to validate hypotheses.

SKILLS

LANGUAGES

Python • C • C++ • Java • Javascript • Bash • HTML5 • CSS3 • SQL • Golang

TECHNOLOGIES

Git • AWS • React • Docker •
PostgreSQL • JUnit • GraphQL
• Mockito • Espresso • Numpy •
Azure • Node • Flask • FastAPI

EDUCATION

• Linux • MongoDB

UNIVERSITY OF WATERLOO

Bachelor of Computer Science

2018 - 2023