

Shalin Patel

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EXPERIENCE

SQUAREPOINT CAPITAL | Incoming Software Engineering Intern Jan 2022 - Apr 2022 | Montreal, QC

PAGERDUTY | Software Engineering Intern May 2021 - Aug 2021 | Toronto, ON

- Planned and set foundation for Scheduled Maintenance feature on Mobile using **Java** and **Kotlin**.
- Implemented and designed architecture for endpoint aggregators written in **Scala** achieving a **70%** increase in efficiency and a **40%** decrease in code.
- Formed dashboards in Sisense and tracked metrics in various features to obtain data directly impacting **>12** projects.

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.
- Established **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 **$O(n\log(n))$ 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.
- Optimized SQL queries in SSMS sent through PowerBI reports generating 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.**

EDUCATION

UNIVERSITY OF WATERLOO

Bachelor of Computer Science

2018 - 2023

SKILLS

LANGUAGES Python • C • C++ • Scala • Golang • Java • Kotlin • Javascript • Bash • HTML5 • CSS3 • SQL

TECHNOLOGIES Git • AWS • React • Docker • PostgreSQL • JUnit • GraphQL • Mockito • Espresso • Numpy • Azure • Node • Flask • FastAPI • Linux • MongoDB • Sisense