

Shalin Patel

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EXPERIENCE

Amazon - AWS

Incoming Software Development Engineering Intern

Vancouver, BC
May - Aug 2022

Squarepoint Capital

Software Engineering Intern

Montreal, QC
Jan - Apr 2022

- Developed ETL pipelines to support 13+ quant trading strategies across global markets using Python, PostgreSQL, GCP, Nomad and Bamboo.
- Built and architected a global search platform for data discovery across on-prem and cloud clusters using React, FastAPI, Elasticsearch, Kibana, Docker, Kubernetes and GKE allowing regex searching of **97,643+** documents.
- Designed a system for asynchronous requests to Elasticsearch using FastAPI, Celery, Flower, Redis, PostgreSQL **increasing throughput by 68%**.

PagerDuty

Software Engineering Intern

Toronto, ON (Remote)
May - Aug 2021

- Developed significant feature on flagship Mobile application using Java and Kotlin increasing **7-day app retention rate by 34%**.
- Implemented and designed architecture for endpoint aggregators written in Scala achieving a **72% increase in efficiency** and a 46% decrease in code.
- Formed dashboards in Sisense and tracked metrics in various features to obtain data directly impacting 6 projects.

Pronti AI

Software Engineering Intern

Kitchener, ON (Remote)
Jan - Apr 2021

- Led development of Android application using Java following MVP architecture, active monthly **users peaked at 5585**.
- Implemented regression testing for the above application using Java, JUnit, Mockito, and Espresso allowing for the **discovery of 37 bugs** and inefficiencies.
- Modified microservices using Flask and PostgreSQL **improving server side latency by 54%**.

Doppl Inc

Software Engineering Intern

Kingston, ON (Remote)
May - Aug 2020

- 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 full-stack proof-of-concept using React Native, Apollo GraphQL, and Golang that successfully led to full development.
- Contributed to client front-end dashboard adding 14 components using React, Mapbox and tested using Jest.
- Developed critical in-production admin dashboard using React, Node, Express, and MongoDB.

Ontario MGCS

Software Engineering Intern

Toronto, ON
May - Aug 2019

- Worked with IBM's Privileged Identity Manager to handle access management for the secure data servers at the Data Center Operations sector.
- Optimized SQL queries in SSMS through PowerBI reports achieving a **42% decrease in time**.

EDUCATION

University of Waterloo

2018 - 2023

Hons. Bachelors of Computer Science

Dean's List - Winter 2020

President's Scholarship of Distinction

SKILLS

Languages

Python, Java, Javascript, C, C++,
Scala, Go, Kotlin, Bash, HTML5, CSS3,
SQL, Scheme

Data/ML

Elasticsearch, Kibana, GraphQL,
MongoDB, MySQL, PostgreSQL, Redis,
Numpy, Pandas, Scikit-learn, XGBoost

Mobile/Web

Typescript, Node.js, React.js, FastAPI,
Flask, Django, Android Studio, Xcode

Other

Artifactory, AWS (EKS, Lambda, S3),
Bamboo, Consul, Docker, GCP (File-
store, GKE), Git, Kubernetes, Nomad

PROJECTS

Moodify - Hacklytics 2021

Python, 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

Solar

Pandas, Matplotlib, Scikit-learn

A python script that successfully
predicts power generation and
irradiation of solar panels with 88%
accuracy.

LEADERSHIP

University of Waterloo
Math Soc.

Finance Director

Planned budgets and funding for
activities hosted by >20 clubs at the
university.