

Shalin Patel

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EXPERIENCE

Coalition, Inc.

Software Engineer - Backend

San Francisco, CA (Remote)

Feb 2024 - Present

- Spearheaded the Renewals Canadian expansion, collaborating cross functionally to ensure compliance with regional regulations, resulting in **839 policy renewals** and **\$2.9mm (GWP)**.
- Developed the 'Schedule A Bind' feature, scheduling over 2,639 quotes to be bound, which resulted in a **29% reduction in P99 latency** and a **1.1% increase in 30-day availability**.
- Partnered with the underwriting team to design and implement an initial **Pricing Algorithm Versioning and Deployment system**, leveraging Go-plugins, gRPC, and FastAPI.

Astronomer

Software Engineer - Control Plane

New York City, NY

May 2023 - Jan 2024

- Implemented microservice and front-end logic for trial-based onboarding, leading to a **\$73,000 revenue boost** in 2 months, using Golang, Gin, Typescript, React, and PostgreSQL.
- Overhauled the **billing architecture** using **Airflow and Azure Blob Storage** to introduce **fault tolerance, data reconciliation**, and **reduced invoice generation errors by 62%**.
- Developed endpoints and refined database models with a **Test-Driven Development** mindset, resulting in the release of **public beta endpoints**, using Golang, Gin, and PostgreSQL.
- Collaborated with **Microsoft** to integrate Astronomer as an **Azure Native ISV** service within the Azure Marketplace, contributing to the generation of over **\$230,000 in revenue**.

AWS - Managed Workflows for Apache Airflow

Software Development Engineering Intern

Vancouver, BC

May - Aug 2022

- Spearheaded the reduction of customer tickets and escalations by approximately 13%, targeting the problem statement towards **reducing stuck/failed tasks & DAG issues**.
- Modelled log parsing and analyzing architectures; implemented in AWS Console using CloudWatch, CDK, React, Node.js allowing for **quick debugging for 130+ MWAA Environments**.
- Collaborated in the design phase of a Data Warehouse for key metrics and insights aggregated across MWAA Environments allowing for future **Exploratory Data Analysis**, while incorporating **Data Persistence and Streaming**.

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.
- Implemented 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, and Redis **decreasing P95 latency by 44%**.

Pronti AI

Software Engineer

Kitchener, ON (Remote)

Jan - Dec 2021

- Led the development of a flagship Android application with **1M+ downloads and 41,000 monthly active users** using Java and following the MVP architecture.
- Engineered an **asynchronous request architecture** for user onboarding, decreasing the onboarding pipeline duration by 38%, using Flask, Celery, Redis, and AWS EC2.
- Optimized the backend infrastructure using Flask, PostgreSQL, AWS (S3, EC2), yielding **54% reduction in server-side latency**.
- Implemented regression testing for Android application using Java, JUnit, Mockito, and Espresso allowing for the **discovery of more than 112 bugs** and inefficiencies.

EDUCATION

University of Waterloo

2018 - 2023

Hons. Bachelors of Computer Science

Relevant Courses:

Distributed Systems, Data-Intensive Distributed Computing, Concurrency

Dean's List - Winter 2020

President's Scholarship of Distinction

SKILLS

Languages

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

Platforms & Frameworks

Airflow, Celery, Elasticsearch, GORM, Kafka, Kibana, MongoDB, MySQL, Numpy, Pandas, PostgreSQL, Redis, SQLAlchemy, Temporal, gRPC

DevOps & Observability

Atlassian Bamboo, Artifactory, AWS (EKS, Lambda, S3), Azure (Astronomer, Blob Storage), Chronosphere, Datadog, Docker, GCP (Filestore, GKE), Git, Grafana, Hashicorp (Consul, Nomad, Go-plugin), Kubernetes, Prometheus, Splunk

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

LEADERSHIP

University of Waterloo

Math Society

Finance Director

Planned budgets and funding for activities hosted by 18 clubs at the university.

University of Waterloo

Poker Studies Club

Behavioural Analyst