Shalin Patel

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EXPERIENCE

Astronomer
Software Engineer
New York City
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 **billing architecture** using **Airflow and Azure Blob Storage** to introduce **fault tolerance, data reconciliation**, and **reduced invoice generation errors by 60%**.
- 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 sales**.

Pronti AI
Technical Lead
Kitchener, ON (Remote)
Jan 2021- Apr 2022

- Led development of 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.

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%, targetting the problem statement towards **reducing stuck/failed tasks & DAG issues**.
- Modelled log parsing and analyzing architectures; implemented in AWS Console using Cloud-Watch, CDK, React, Node.js allowing for **quick debugging for 130+ MWAA Environments**.
- Collaborated in the design brainstorm of a Data Warehouse for key metrics and insights aggregated across MWAA Environments allowing for future **Exploratory Data Analysis**, 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.
- 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 **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.

EDUCATION

University of Waterloo
2018 - 2023
Hons. Bachelors of Computer Science

Dean's List - Winter 2020

President's Scholarship of Distinction

SKILLS

Languages
Python, Golang, Java, Javascript, C, C++, Scala, Kotlin, Bash, HTML5, CSS3, SQL, Racket

Data/ML
Airflow, Celery, Redis, Elasticsearch, Kibana, GraphQL, MongoDB, MySQL, PostgreSQL, Redis, Numpy, Pandas, Scikit-learn, XGBoost

Mobile/Web
Typescript, Node.js, React.js, Gin FastAPI, Flask, Django, Android Studio, Xcode

Other
Chronosphere, Splunk, Artifactory, AWS (EKS, Lambda, S3), Bamboo, Consul, Docker, GCP (Filestore, GKE), Azure (Astronomer, Blob Storage), 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

LEADERSHIP

University of Waterloo Math Soc.

Finance Director
Planned budgets and funding for activities hosted by >20 clubs at the univerisity.