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EXPERIENCE

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 100K+ MWAA Environments**.
- Collaborated in the design 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, PostgreSQL **increasing throughput by 68%**.

PagerDuty

Toronto, ON (Remote)

May - Aug 2021

Software Engineering Intern

- 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(nlog(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.

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 (Filestore, 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.