






Saud Naumani

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Skills

Languages: Python • Java • Scala • C • C++ • JavaScript (ES6) • SQL

Frameworks & Libraries: Pandas • NumPy • Flask • React • Redux • Django • ELK Stack

Tools: Docker • AWS • Kubernetes • GCP • Airflow • PostgreSQL • MySQL

Education

University of Waterloo

Sept 2017 - Sept 2020

- Candidate for BSc in Honours Computer Engineering

Experience

StackPros Inc. • Software Engineering Intern, Big Data Analytics

Toronto, ON

Python • GCP • Docker • Airflow

Jan 2020 - Apr 2020

- Built **ML pipeline** that reads data from a data warehouse, processes it through **MapReduce** operations and delivers data to enable sentiment analysis for customer insight applications
- Developed a **cloud-native** petabyte scale ingestion pipeline used for training large datasets allowing **KPI forecasting** of customer patterns and habits; gaining client \$50k+ in sales through targeted advertising

The Globe and Mail Inc. • Software Engineering Intern, Content Analytics

Toronto, ON

Python • Scala • AWS • Docker • Airflow

May 2019 - Aug 2019

- Engineered a schema for the organization and aggregation of data received from Apple News into an existing **streaming pipeline**, improving The Globe's data science tool for content promotion and ad campaigns
- Developed system for real-time detection of anomalies in data warehouses, reporting when data was atypical indicating a break in a pipeline or Airflow DAG task,
- Reducing failure rate by **12%** and saved engineers **2hrs** weekly for failure reprocessing
- Integrated the Localstack framework into an integration CI/CD pipeline for verifying **SQL logic**

Blackberry Ltd. • Software Engineering Intern, Firmware Security

Toronto, ON

Java • C

Sept 2018 - Dec 2018

- Built a security checkpointing API in **Java** which cryptographically validates IoT device signatures
- Implemented security abstraction layer to prevent stack-smashing attacks through buffer overflows and overrun

Method:CRM • Software Engineering Intern, Automation

Toronto, ON

Python • JavaScript

Jan 2018 - Apr 2018

- Engineered a framework for automated testing of the UI and backend improving developer velocity
- Enabled end-to-end integration testing by developing a **JSON** validator in **CI** pipeline, pushing the company towards automating unit tests on commits, saving costs

Projects

Fluent-AI • Conversational AI Assistant

Jan 2018 - Oct 2018

JavaScript • Express.js • GCP Natural Language Processing

- Analyses and corrects a person's speech, pronunciation and grammar, leveraging GCP's NLP platform

Watonomous • UW Autonomous Vehicle Design Team

May 2018 - Aug 2018

Python • C++

- Collaborated in a team of four to research and train a CNN for real-time obstacle detection and classification