Saud Naumani

SOFTWARE ENGINEER · COMPUTER ENGINEERING STUDENT · UNIVERSITY OF WATERLOO

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Skills

Languages	Python · Java · Scala · C++/C · SQL · Bash
Technologies	Flask · Apache Spark · NodeJS · PostgreSQL · ElasticSearch
Tools	Docker · AWS · Kubernetes · Git · Apache Airflow

Experience

The Globe and Mail
Toronto, ON

DATA ENGINEER
May 2019 - PRESENT

- Developed systems to find data anomalies in Elasticsearch and stream processing systems using Python
- Owned and developed a data pipeline component used for near real-time log management
- Implemented an enrichment adaptor for data collected from Apple news using Scala
- Conducted research and implemented changes in various Airflow DAGs to optimize performance
- Optimized the development workflow by creating a staging ingestion pipeline used for continuous integration and deployment, improving efficiency by 60%

Blackberry
Ottawa, ON

SOFTWARE ENGINEER INTERN - CORE OS SECURITY
Sept. 2018 - Dec. 2018

- Designed, owned, and developed a Linux distribution utilizing Yocto as a basis for IoT devices, with a focus on platform security
- Developed an API in Java which acted as a security checkpoint, serving to heuristically validate IoT device signatures
- Refactored the code base for modularity, relieving a major bottleneck in the business model by allowing for easy integration with device manufacterers and enterprise licensees

Method:CRM
Toronto, ON

SOFTWARE ENGINEER INTERN
Jan. 2018 - Apr. 2018

- Utilized Flask to develop and improve an automated testing framework, successfully reducing the run-time of the test suite by 60%
- Designed and constructed automated tests for the backend infrastructure of Method's web API, written in NodeJS
- Developed continuous integration pipeline to automatically parse and validate XML/JSON API responses

Projects

National Zakat Foundation

- Responsible for deploying containerized applications using Docker
- Deployed scripts in Jenkins CI pipeline

Server-Less Chat APP

- Integrated AWS Lambda, API Gateway, S3, and DynamoDB in order to build a server-less chatting application
- Architected an API which allows for reading/writing data through AWS using the client's browser
- Integrated DynamoDB to store registered users and chat messages

Open Source Contributions

- Snowplow Analytics - contributed towards their data enricher component to allow for a manual override of various AWS service endpoints, granting developers to use localstack as a mocking/test framework; all contributions in scala

Fluent-AI

- Audio processing program which analyses a person's speech in any language and corrects their pronunciation and grammar
- Collaborated in a team of four during HackThe6ix

Education

University of Waterloo
Sept 2017 - Apr 2022

BACHELORS OF APPLIED SCIENCE IN HONOURS COMPUTER ENGINEERING