Rafay Aleem

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EDUCATION

SIMON FRASER UNIVERSITY
MSc in Computer Science
Sep 2018
Graduating in Dec 2019
Burnaby, BC, Canada

NUST
Bachelor of Software Engineering
Sep 2010 - May 2014
Islamabad, Pakistan

SKILLS

BIG DATA
RStudio • Jupyter • Anaconda
PyTorch • Spark • Hadoop

PROGRAMMING
Ruby • Python • Django
JavaScript • NodeJS

DISTRIBUTED SYSTEMS
Kafka • RabbitMQ • Kubernetes
Celery • Redis • AWS Kinesis
AWS SQS • MySQL • Azkaban
Hue • Mode • Presto
Others:
Git • kafka-python • Sarama

COURSEWORK

GRADUATE
Machine Learning
Statistical Learning and Prediction
Programming for Big Data

UNDERGRADUATE
Operating Systems
Applied Parallel Computing
Network Security
Computer Networks
Database Systems
Computer Graphics

ACTIVITIES

• Guitar player (Played at the Orpheum Theatre in June 2018)
• Trekking and Hiking (Base camp of 9th highest peak)
• Horse riding

EXPERIENCE

SHOPIFY | Data Engineer Intern
May 2019 - Aug 2019 | Toronto, ON, Canada
- Implemented binary parsers with custom codecs to handle data ingestion
- Implemented safeguards for downstream migration for type changes in upstream data sources
- Implemented new Datadog metrics and notifications for improved visibility
- Explored and worked on MySQL load-shedding in extractors
- Learned de-duplication techniques required to prevent duplication of same rows coming from multiple shards
- Learned tools such as Azkaban, Apache Hue, Presto, Hive and Mode

WIIVV WEARABLES | Senior Platform Engineer
Nov 2017 – Aug 2018 | Vancouver, BC, Canada

- Wrote event-driven microservices in NodeJS using RabbitMQ
- Briefly worked with Kubernetes on AWS to improve security and load handling

DUBIZZLE OLX | Software Engineer
Jan 2016 – Nov 2017 | Dubai, UAE
- Architectured and migrated payment web-service to a new payment gateway through an A/B test by leveraging HAProxy sticky sessions
- Migrated core products microservice from PostgreSQL to MySQL with just 6 minutes of downtime
- Selected as OLX Tech Ambassador for MENA region

DUBIZZLE OLX | Junior Software Engineer
June 2014 – Dec 2015 | Dubai, UAE
- Worked with Kafka consumers and producers using kafka-python
- Learned concepts such as SOA, load balancing, load testing, caching, message bus, canary releases and asynchronous tasks

ARTICLES & BLOG POSTS

Apr 14, 2019	Predicting Stable Portfolios Using Machine Learning
Mar 08, 2019	Deep Learning using BigDL
Mar 13, 2017	A/B Testing Our Way to a Better Payment Gateway (OLX)
Feb 08, 2016	Live MySQL Schema Changes on Amazon RDS with Percona (OLX)

PROJECTS

Sep 2017	Message bus abstraction for multiple brokers (Dubizzle).
Jan 2014	Intelligent Traffic Steering at SDX. Publication submitted.

HACKATHONS

Nov 2012	Mobilink Game Development Contest (runner-up)
Oct 2012	Punjab Youth Festival Game Development Competition (winner)

OPEN SOURCE

Oct 2016	Shopify Sarama: Added user-space multi-version support for Kafka
Sep 2015	Gdx-sqlite: Cross-platform extension for database handling in Libgdx