
EDUCATION

Carnegie Mellon University*Bachelor of Science in Computer Science**Dec. 2015**Minor in Business Administration*

QUALIFICATIONS

Backend: Python, Flask, Redis, Solr, Node
Databases: MongoDB, MySQL
DevOps: AKS, Kubernetes, Helm, Azure Pipelines
Mobile: Flutter

EXPERIENCE

- **Qatar Computing Research Institute (QCRI) - Software Engineer** Doha, Qatar
Zaman — *Flutter, Python, Flask, Solr, MongoDB, Redis, AKS, Kubernetes, Helm, Docker* *April 2018 - Present*
 - * *All features developed encompass containerization, deployment, accompanied Azure YAML pipeline and releases*
 - Aided in building the Zaman news app. Main Page AppStore PlayStore
 - Designed/Built/Released different features for the app and backend
 - Built iOS test flight release pipeline on Azure DevOps*SAQR* — *Python, Flask, Solr, MongoDB, Redis, AKS, Kubernetes, Helm, Docker, Node, Angular*
 - * *All features developed encompass containerization, deployment, accompanied Azure YAML pipeline and releases*
 - Aided in building data ingestion pipeline capable of ingesting/supplementing/storing ~4 Million documents daily
 - Designed/Built/Released asynchronous event based worker encompassing start/stop/complete/heartbeat events
 - Designed/Built different backend endpoints for frontend/API calls
 - Prototyped different MVPs for different backend SAQR features
 - Created python packages (hosted on Azure Artifacts) and publishing pipeline for one of SAQR's components
 - Deployed/Managed two onpremise swarm deployments of the SAQR Platform
 - Developed/Integrated modular code for aggregation and grouping for Solr into pipeline
 - Integrated in-house Unsupervised User Stance Detection on Twitter into production
 - Added different crawler modes with state support using Redis
 - Modified open source libraries to achieve multi-language (JS, Python) support between our microservices
 - Introduced different Azure Devops features to aid developers in development process*Sijil* — *Python, Flask, MySQL, Docker, Swarm*
 - Designed/Developed different aspects of the log analysis backend API
 - Flask: Built endpoints for data and aggregations using SQL and Mongo
 - Built queries for aggregations/selections for Mongo/SQL*Hemaya* — *Python, Flask, Redis, MongoDB, Docker*
 - Designed/Developed scalable pipeline for collection, aggregation, enrichment and storage of IPs
 - Pipeline able to ingest 1 Million IPs across 15 Ports/Protocols
 - Developed backend API for storage and querying of aggregated data using Flask
 - Used micro-service architecture to split and connect components within pipeline using Docker and Redis
- **Qatar University** Doha, Qatar
Research Assistant *July 2017 - March 2018*
 - Setup multiple MPC and 2PC platforms including Obliv-C, ObliVM, CMBC-GC and TinyGarble.
 - Wrote scripts/programs to be used in platforms to run comparisons.
- **Carnegie Mellon University in Qatar** Doha, Qatar
Research Associate *January 2017 - April 2017*
 - Setup & benchmarked 4 state-of-the-art parallel/distributed graph analytics platforms on a 40-node cluster:
GraphPad (Distributed GraphMat), Graphlab PowerGraph, GraphX (on Spark) and Giraph.
 - Deployed Hadoop (v1 & v2), including HDFS, MapReduce, and YARN (for Giraph and GraphX).
 - Evaluated several common graph analytics application benchmarks on multiple real-world big data graphs:
incl. Wikipedia (50 million edges), Weibo (250 million edges), Twitter (1.5 billion edges).
 - Paper: LA3: A Scalable Link- and Locality-Aware Linear Algebra-Based Graph Analytics System.
- **Qatar Computing Research Institute** Doha, Qatar
Consultant/Intern *December 2015 - June 2016*