

Mohammed Furkhan Shaikh

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Skills

- Python | Java | C | C++ | JavaScript | TypeScript | Go | SQL | NoSQL | Ruby | DynamoDB | MongoDB | Node | React | Git
- AWS: EC2 | S3 | Lambda | SNS | SQS | VPC | Kinesis | IAM | CloudFormation | CloudWatch | Athena | API Gateway
- Code pipeline | Data pipeline | Azure | GCP | TensorFlow | PyTorch | Keras | Machine Learning | Deep Learning | CI/CD
- Unit Testing | Jest | JUnit | Mockito | AWS CDK | NPM | Django | Docker | Cloud Computing | OpenCV | Angular | Vue
- Distributed Systems | Microservices | OOP | Frontend | Backend | Full-Stack | Agile Methodology | SCRUM

Experience

Amazon, Software Development Engineer, Sunnyvale, CA

July 2021 - Present

- Automated and optimized onboarding service to reduce program teams' onboarding time by **91%**, **saving over 4000 hours** of SDE and PM efforts (**saving over 2 million US Dollars per year**) using React, DynamoDB and APIs.
- Designed and developed systems that handle millions of transactions per second using Java and AWS services.
- Deployed data pipelines for automated snapshotting of **300GB per month** and business analytics using Redshift.
- Implemented service for optimized handling of large-scale data using Scala on top on EC2 clusters.
- Developed systems for data handling using S3, Lambda, Event Bridge, SNS, SQS, Kinesis, Step Functions, etc.
- Deployed services to handle customer queries for data, with improved **efficiency by 30%**.
- Set up dashboards, automated monitoring and alarms, CI/CD pipelines and followed best practices.
- Performed on-call activities to mitigate high severity tickets (impacting millions of Amazon's customers), debug and resolve customer issues.
- Used Python to write operational scripts, along with Java, JavaScript, TypeScript, SQL, Go, etc.

UTA Research Institute, Research Assistant, Fort-Worth, TX

January 2020 – May 2020

- Implemented brain-computer interface to control a robotic hand using Emotiv Epoch.
- Integrated data collection and processing with Arduino microcontroller, JavaScript, and Node-red framework.

Education

Master of Science, Computer Science

August 2019 – May 2021

- University of Texas at Arlington, GPA: 3.66/4.0
- Specialization in Artificial Intelligence and Databases

Arlington, TX

Bachelor of Technology, Computer Science and Engineering

August 2014 – June 2018

- SGGs Institute of Engineering and Technology, CGPA: 8.39/10.0
- Thesis: Recurrent Neural Networks based Language Modelling

MH, India

Projects

Sharelist <https://github.com/FurkhanShaikh/ShareList>

January 2021 - May 2021

- Designed and developed an Android App as part of the class group project.
- Implemented Firebase database and API calls for user registration and authentication.
- Added features for creating, assigning, and modifying tasks.

SharedBox <https://github.com/FurkhanShaikh/SharedBox>

August 2019 - December 2019

- Implemented multi-threaded distributed client-server application for file sharing in Python using sockets and tkinter.

Alpaca Voice <https://devpost.com/software/alpaca-voice>

September 2019

- Leveraged Voiceflow framework to implement voice command for Amazon Alexa to buy and sell shares of stock.
- Integrated API calls to Alpaca APIs, Google APIs and Voiceflow APIs for data storage and processing.
- **Awarded 2nd Overall Winner, HackUTA.**

Aqua Scorch Perceiver using Image Repositories <https://arxiv.org/abs/1809.10190>

December 2017 - May 2018

- Implemented image segmentation to detect water bodies and burnt areas from satellite images.
- Implemented multi-processing to process images and stored results in NoSQL MongoDB, frontend in PHP bootstrap.
- **Awarded Best Student Project Award** by Tata Consultancy Services.