# Mohammed Furkhan Shaikh

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## Skills

- Python | Java | C | SQL | NoSQL | Node | React | Git | IAM | CloudWatch | Athena | API Gateway | NPM | Code pipeline
- AWS | Azure | GCP | TensorFlow | PyTorch | Keras | Machine Learning | Deep Learning | Cloud Computing | Django
- Docker | OpenCV | Angular | Vue | OOP | Frontend | Backend | Full-Stack | Agile | SCRUM

## Experience

**Amazon,** *Software Development Engineer,* Sunnyvale, CA                    *July 2021 - Present*

- Automated 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 microservices that handle millions of transactions per second using AWS services.
- Deployed data pipelines for snapshotting of **300GB per month** and analytics.
- Implemented service for handling large-scale data using Hadoop, Scala on top on EC2 clusters.
- Developed distributed systems using S3, Lambda, Event Bridge, SNS, SQS, Kinesis, Step Functions, etc.
- Optimized services to handle customer queries for data, with improved **efficiency by 30%**.
- Set up dashboards, monitoring and alarms, CI/CD pipelines and followed best practices.
- Mitigated high severity tickets (impacting millions of Amazon's customers), debug and resolve customer issues.
- Templated development packages for faster deployments and testing (AWS CDK, CloudFormation, Jinja).
- Standardized unit tests and integrations tests for end-to-end testing **90% code coverage**. (Junit, Jest, Mockito).
- Coded operation scripts in Java, Python, JavaScript, TypeScript, SQL, Go, Ruby, Perl, etc.

**UTA Research Institute,** *Research Assistant,* Fort-Worth, TX                    *January 2020 – May 2020*

- Innovated brain-computer interface to control a robotic hand using Emotiv Epoch.
- Integrated data collection and processing with Arduino microcontroller
- Technologies used: JavaScript, Typescript, NodeJS, Node-red framework.

## Education

**Master of Science, Computer Science**                    *August 2019 – May 2021*

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

**Bachelor of Technology, Computer Science and Engineering**                    *August 2014 – June 2018*

- SGGS Institute of Engineering and Technology, CGPA: 8.39/10.0                    *MH, India*
- Thesis: Recurrent Neural Networks based Language Modelling

## Projects

**Sharelist** *https://github.com/FurkhanShaikh/ShareList*                    *January 2021 - May 2021*

- Designed and developed an Android App as part of the class group project. (Java, Android SDK)
- Architected 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*

- Created 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. (JavaScript)
- *Awarded 2nd Overall Winner*, *HackUTA.*

**Aqua Scorch Perceiver using Image Repositories** *https://arxiv.org/abs/1809.10190*                    *December 2017 - May 2018*

- Achieved image segmentation to detect water bodies and burnt areas from satellite images. (Python)
- Processed images using multi-processing and stored results in NoSQL MongoDB (frontend: PHP bootstrap).
- **Awarded Best Student Project Award** by Tata Consultancy Services.