Fahd Siddiqui

Houston, TX
(731)-400-0392
FahdSiddiqui@gmail.com
FahdSiddiqui.com

Software developer with experience in versatile industries, dev stacks, and languages. Experienced in AWS cloud, Python, Machine learning, git, engineering solutions. Love to solve challenging problems.

TECHNICAL SKILLS

Programming	Python, dotnet C#, Java, Bash, git, Docker, C++
AWS Technologies	Lambda, EC2, S3, IoT, API Gateway, DynamoDB
Data Science	Sk-learn, Pandas, Numpy, Plotly, Jupyter, TensorFlow

PROFESSIONAL EXPERIENCE

Senior Software Developer — **Dec 2021 — Present**
Illumina Inc — San Diego, CA

- Contributing to Illumina Connected Annotation: the fastest and most accurate annotation tool and service.
- Optimized core algorithms for efficient genomic data storage, searching, and retrieval from custom data blobs.
- Integrated external sources: gnomAD, ClinVar, ClinGen, and COSMIC for germline and somatic variants.
- Owned end-to-end and ensured high availability for: AWS Lambda service, command-line, and docker including testing and entire deployment pipeline.
- Created Cloudformation+Lambda+RestAPI based licensing API for internal tools and external customers' products.
- Created CI/CD pipelines for automated testing and deployment resulting in error free deployments.
- Tools: AWS Lambda, S3, CloudFront, CloudFormation, RestAPI, dotnet 8, Bash, Docker, CI/CD, Jira.

Senior Software Developer — **Feb 2020 — Dec 2021**
Corva LLC — Houston, TX

- Technical lead for Drilling AI and Completions product lines on 70% of North American drilling rigs.
- Created automated ML model pipeline for training and evaluating new models from unstructured data.
- Designed algorithms for detecting events, anomalies, and engineering calculations in real-time data.
- Created 25+ distributed, scalable, and fault tolerant data processing streamed, on-demand, and scheduled cloud apps.
- Tools: Startup experience, AWS Lambda, Python, Java, Bash, Jupyter, Sk-learn, Docker, CI/CD, Jira, Notion, Rollbar, DataDog.

Founding Software Developer — **Aug 2019 — Dec 2023**
etble LLC — Dallas, TX

- Created a highly scalable architecture for table side food ordering system using AWS Lambda, and Python.
- Deployed edge IoT hardware to display, print, and bump orders in the kitchen, and point of sale.
- Created web-based business dashboards for orders, reports, automated accounting, along-with the backend.
- API development for processing orders, promotions, Stripe payments, accounting, and analytics.
- Tools: AWS Lambda, DynamoDB, IoT, Android, Python, Kotlin, CI/CD, FastAPI.

Research Fellow — **Jan 2017 — Feb 2020**
University of Houston — Houston, TX

- Built open-source software (DFITAnalysis) for pressure data analysis using C++/QT.
- Implemented custom licensing management API for UHDFIT using AWS Lambda and DynamoDB.
- Tools: Matlab, Python, Numpy, Matplotlib, C++, QT, Flask, AWS DynamoDB, Lambda.

EDUCATION

Doctor of Philosophy, Petroleum Engineering, Texas Tech University, 4.0/4.0	**Aug 2012 — Dec 2016**
Master of Science, Petroleum Engineering, Texas Tech University, 4.0/4.0	**Jan 2011 — Aug 2012**
Bachelor of Engineering, Petroleum Engineering, NED University, 3.7/4.0	**Jan 2005 — Dec 2008**