

# Fahd Siddiqui

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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

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

## PROFESSIONAL EXPERIENCE

<b>Senior Software Developer</b> Illumina Inc	<b>Dec 2021 — Present</b> San Diego, CA
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- 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 like 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.
- Integrated Annotation and licensing into internal and external products.
- Contributed to the rigorous SDLC and testing, to satisfy regulatory compliance.
- Tools: AWS Lambda, S3, CloudFront, dotnet 6, Bash, Docker, CI/CD, Jira.

<b>Senior Software Developer</b> Corva LLC	<b>Feb 2020 — Dec 2021</b> Houston, TX
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- Technical lead for Drilling AI and Completions product lines on 50% 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: AWS Lambda, Python, Java, Bash, Jupyter, Sk-learn, Docker, CI/CD, Jira, Notion, Rollbar.

<b>Founding Software Developer</b> etble LLC	<b>Aug 2019 — Dec 2023</b> Dallas, TX
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- 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.

<b>Research Fellow</b> University of Houston	<b>Jan 2017 — Feb 2020</b> Houston, TX
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- 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

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