

Muhammed Shifan P

Software Engineer | Full Stack Developer | Python | Elasticsearch | Scalable Systems | Ex-Siemens | CSE NITC '22

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SUMMARY

Full Stack Software Engineer with 4+ years of experience building scalable microservices, RESTful APIs, and cloud-native web applications. Proficient in Python, JavaScript, React, AWS, Docker, and SQL/NoSQL databases. Proven track record of delivering high-performance systems in Agile environments, with hands-on experience in search optimization, LLM integration, and CI/CD pipelines.

EXPERIENCE

Strand Life Sciences Pvt Ltd

Sep 2025 – Apr 2026

Software Engineer

Bangalore, India

- Designed and delivered RESTful APIs and React-based frontend workflows for a Dockerized microservices platform supporting clinical genomics, processing thousands of genomic variant records using Flask, Spring Boot, MySQL, PostgreSQL, OpenSearch, and Apache Kafka.
- Collaborated with cross-functional teams to drive Agile/Scrum ceremonies, facilitating sprint planning, retrospectives, and velocity tracking to accelerate delivery cycles and reduce blockers.
- Developed unit tests that improved code coverage and stabilized CI/CD pipelines, reducing integration failures.

Strand Life Sciences Pvt Ltd

Jun 2022 – Aug 2025

Associate Software Engineer

Bangalore, India

- Built and maintained full-stack features on an AWS-hosted application (EC2, ECS, S3, VPC, API Gateway, CloudWatch) using React and Flask, integrating LLM-powered genomic insights via RAG pipelines grounded in genomic context for end users, with RabbitMQ for async messaging, Celery workers for distributed task processing, Redis for caching, and CloudWatch-based observability for monitoring and logging.
- Led migration of search infrastructure from MySQL to Elasticsearch, achieving a 10x improvement in query performance and enabling full-text search at scale.

Siemens Technology India

May 2021 – Jul 2021

Software Engineer Intern

Bangalore, India

- Engineered a C# ASP.NET Core web application integrated with a graph database to model and traverse complex entity relationships.
- Defined and documented REST API contracts using Swagger/OpenAPI, improving developer onboarding and API discoverability.
- Optimized backend graph traversal queries, enabling efficient relationship lookups across large datasets.

EDUCATION

National Institute of Technology Calicut

2018 – 2022

B.Tech in Computer Science and Engineering | CGPA: 7.78 / 10

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C++, SQL

Frameworks & Libraries: React, Node.js, Flask, Django, Spring Boot, Express.js, ASP.NET Core, Celery, Chart.js

Cloud / DevOps: AWS (EC2, S3, Lambda, IAM, VPC, ECR, ECS, API Gateway, CloudWatch), Docker, Microservices, CI/CD

Databases: MySQL, PostgreSQL, MongoDB, DynamoDB, Elasticsearch, OpenSearch, Redis

Core Concepts: Data Structures & Algorithms, System Design, REST API Development, Unit Testing, Performance Optimization

AI / ML: Machine Learning, Deep Learning, LLM Integration, RAG (Retrieval-Augmented Generation), scikit-learn, NumPy, Pandas

Tools: Git, GitHub, Linux, Bash, Agile, Scrum, Swagger/OpenAPI, RabbitMQ, Apache Kafka

PUBLICATIONS

[Automated Analysis and Behavioural Prediction of Interview Performance using Computer Vision](#)

Published in IEEE INDICON 2022.

PROJECTS

[Analytic Study of Climate Change](#) | Python, Machine Learning, Google Earth Engine

- Processed 10+ years of global temperature data using Google Earth Engine, NumPy, and Pandas for trend analysis.
- Built a regression model with scikit-learn to predict future city-level temperature trends with measurable accuracy.
- Visualized geospatial climate patterns using Matplotlib to communicate insights effectively.
- Developed a Django web application to serve climate analytics as an interactive dashboard, exposing REST API endpoints and rendering dynamic Chart.js visualizations for temperature trends, city comparisons, and pollution analysis across 11 Indian cities.