

Izaan Aamir

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Experience

BACKEND ENGINEER | SPIKE TECHNOLOGIES, USA | FEBRUARY 2023 – PRESENT

- Architected and deployed microservices using FastAPI within a Kubernetes-based EKS cluster on AWS, handling seamless integrations with wearable providers via REST APIs and webhooks.
- Developed and maintained scalable ETL pipelines for data ingestion, transformation, and loading using Python, Pydantic for schema validation, and AWS Glue for orchestration.
- Automated deployment of microservices and serverless components (AWS Lambdas) through GitLab CI/CD pipelines, with infrastructure as code (IaC) managed by Terraform.
- Implemented advanced data processing techniques, integrating machine learning models to enhance data-driven decision-making.
- Employed monitoring and logging tools like Grafana, Prometheus, and AWS CloudWatch to ensure system reliability and performance.
- Optimized data storage and retrieval in AWS S3 and DynamoDB, ensuring low-latency access and compliance with data governance policies.

BACKEND ENGINEER | SPIKY.AI, USA | FEBRUARY 2022 – FEBRUARY 2023

- Engineered a serverless architecture on AWS, utilizing Amplify and AWS Lambda for efficient, scalable processing of audio and video data, contributing to the ability to handle large volumes of multimedia data.
- Worked with a range of AWS services, including DynamoDB, Lambdas, Cognito, and AWS Amplify, to build and maintain a robust backend infrastructure.
- Created internal performance metrics and dashboards using RESTful APIs from platforms such as Jira and GitHub, providing actionable insights into team productivity.
- Led the integration of the company's platform with external systems, ensuring seamless data flow and interoperability.
- Managed continuous integration and delivery (CI/CD) pipelines for serverless applications, ensuring rapid deployment and minimal downtime.

Education

COMPUTER ENGINEERING | ESIEE PARIS, FRANCE | JANUARY 2023

- Received scholarship to participate in the Erasmus+ Program.

COMPUTER ENGINEERING | BILKENT UNIVERSITY, TURKEY | AUGUST 2020 – JUNE, 2024

- Received **Full-Scholarship** by OSYM Placement

Projects

• ExperliPROF Web Application

Developed an innovative web application that streamlines freelance teachers' activities across multiple schools. The platform facilitates efficient planning, management, and data extraction for honorary teachers, empowering them with comprehensive insights.

Tech-stack: Angular, Django, MySQL, OVH, REST APIs, Django ORM

• WePrep: Mock AI Interviews

A comprehensive video analysis platform designed to optimize professional skills through personalized AI-driven interviews. The platform featured advanced functionalities such as speech and language analysis, vocal tone measurement, attention level monitoring, and body language tracking.

Tech-stack: AWS Lambdas, Amplify, EC2, Flask, API Gateway, WebSockets, Next.js, DynamoDB, S3, Rest APIs, SNS, SES, Pytests, Bedrock, Kinesis

Skills

HTML, CSS, MySQL, SQLite, PostgreSQL, AWS, REST APIs, GraphQL, Django, FastAPI, Flask, Java, Python, C, C++, Unittest, Pytest, Java SpringBoot, Spring MVC, Kubernetes, Docker, Pydantic, Redis, Apache Kafka, Angular