



# Shaheer H.

DevOps Engineer



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## SKILLS

### Programming Languages

Python  
JavaScript/ ECMAScript  
Node & Bun Runtime  
TypeScript  
C# (Unity API)

### Frameworks

Django & Django Rest Framework  
Flask & Fast API  
Nuxt 3/ Vue  
Tailwind  
React (Basics)  
Flutter

### Cloud Skills

Worked on AWS, Azure, and GCP  
Infrastructure as a Code  
CI/ CD Pipelines  
Auto scaling and Load Balancing  
Serverless Computing  
Containerized Computing  
Network & Object Storage  
Databases Scaling  
Monitoring and Logging  
Events and Queues  
Backups and Alerts  
Cost Optimization  
Advanced VPC Networking  
Advanced Identity Management  
Encryption and Security

## ABOUT

As a Full Stack DevOps professional, I excel in optimizing processes, solving complex challenges, and enhancing system performance. My expertise spans both application development and infrastructure, allowing me to align solutions effectively with your organization's objectives.

## WORK EXPERIENCE



### Al Nafi E-Learning

Full-time . 2 years

#### DevOps Team Lead

Jan 2023 - Present

#### Al Nafi Cloud (alnafi.cloud)

- Developed and implemented the entire architecture of the Al Nafi Cloud project as a multi-tier application on AWS.
- Containerization with Docker and Docker Compose.
- Integrated multiple local and international payment methods (Stripe, DLocal, Easypaisa, UBL IPG) for subscriptions and in-app currency.
- Enabled launching private virtual computers in-browser using AWS SDK and VNC connections.
- Created a generic animation system for the whole frontend.

#### Applications Monitoring Tool

- Developed a solo project: a robust system for DNS, Ping, API, and HTML monitoring developed using Django and AWS.
- Scheduled tests via CloudWatch Events for automated performance evaluations.
- Enabled email reports and real-time notifications for quick issue detection.
- Integrated audio alerts for immediate attention to critical events.

#### MCQs Generator

- Developed using Django, Open AI APIs, and AWS services.
- Integrated the GPT-3.5 model via the OpenAI API to ensure high-quality content generation.
- Generate topic to MCQs or content to MCQs.
- Parallel bulk processing and generation.
- Provided downloadable Excel sheets as output for generated MCQs.

#### Microservices for Courses Registration (alnafi.com)

- Led a team in developing a comprehensive project with 5 microservices on AWS.
- Designed the application architecture, and patterns, and oversaw both frontend and backend development.
- Dockerized all the microservices.
- Achieved 90% dynamic Frontend using a headless CMS and various AWS services.
- Integrated diverse payment methods (Stripe, Easypaisa, Jazzcash, UBL IPG) with a seamless cart and checkout system.
- Implemented user authentication through Google and Facebook for enhanced user convenience.
- Established efficient communication among microservices via API calls and message brokers, integrated with a data warehouse.

#### Learning Management System

- Developed a Learning Management System (LMS) on an existing Django Rest Framework and Nuxt 3 website.
- As it was an urgent and important project, I took charge of frontend, and backend development as well as Cloud operations and completed it alone before the deadline.
- Forums, video, PDF, audio, MCQs, and many other types of lessons.
- Implemented cloud services using S3 and CloudFront for efficient content delivery.
- Prioritized speed and security by creating signed URLs for content access.

## Tools & Libraries

AWS SDK

Node & Bun Runtime

Selenium & Puppeteer

Beautiful Soup

Numpy and Pandas (Basic)

Docker & Docker Compose

Cloudflare Tunnels & Ngrok

HaProxy, Nginx & Apache

Rabbit MQ

Redis Server

Pm2, Uvicorn & Gunicorn

Pinia & Vuex State Management

GetX State Management

Unity game engine

## CERTIFICATIONS

<b>Information Security</b> Freecodecamp	Oct 2023
<b>AWS Ed. Web Builder</b> AWS Educate	Sep 2023
<b>AWS for DevOps</b> Linkedin	Jan 2023
<b>Serverless and Microservices for AWS</b> Linkedin	Dec 2022
<b>Problem Solving</b> HackerRank	Sep 2021

## LANGUAGES

English	✓
Urdu	✓

## EDUCATION

2021 – Present

**FUUA**ST, Karachi  
Bachelor of Computer Science

2023 – Present

**UoPeople** (Online, USA)  
English as a second language

## Chatwoot

- I contributed to this and fixed build issues in Docker and Ruby gems packages.
- Presented and deployed this solution on AWS for the support team to reply to messages received from the audience of multiple platforms easily.

## Full Stack Developer

Aug 2022 - Dec 2022

### Migrated from monolith to 3 Tier Microservices Architecture

- Designed and developed the frontend in Vue/ Nuxt and Tailwind.
- Created APIs using Django Rest Framework.
- Deployment the services on AWS.

### Video Dubbing Tool

- Independently created a Video Dubbing Tool using Python, Azure Text-To-Speech, and FFmpeg.
- Translated English subtitles to various languages and synchronized them with corresponding video chunks.
- Dynamically adjusted video speed based on audio length to ensure synchronization with language-specific speeds.
- Input: Subtitle and video; Output: Dubbed videos in multiple languages.
- Leveraged Azure Text-To-Speech for high-quality audio synthesis in the dubbing process.

## Backend Developer

Dec 2021 - Jul 2022

### Maintenance and updates of alnafi.com

- Back then it was a monolithic website in Django, I maintained the scale and features of the site.
- Developed features on demand, such as a sponsorship system, loan system, coupon system, and manual and dynamic checkouts.

### Custom Linux images (Nafi Linux) USB

- Customized Linux as per the requirements and created images for students to have a quick solution to perform labs.



## Freelancing & Hobby Projects

### Pirates Bay Scrapper

Developed a Python web scraper using Selenium and BeautifulSoup to extract links and information from The Pirate Bay.

### E-Commerce Web App Deployment on AWS & Azure

- Leveraged AWS and Azure services to ensure high availability, fault tolerance, and efficient scaling of the application.
- Implemented load-balancing and autoscaling strategies for optimal distribution of incoming traffic across dynamic number of instances.

### Quiz game with Unity and Firebase

- Authentication system in Unity game with Firebase
- Score, Best Score, and Leader board

### Hyper-Casual Games as a hobby project

- Created 3 mini Hyper-Casual games for mobile devices.
- Controls using a combination of touch and accelerometer.
- Successfully released on Google Play Store.

### 3D Fighting Game Combos System Logic

- Developed a combo system using Unity & C# to use different moves based on the previous move and stance within the certain time.



## K-Electric

Apprenticeship . 2 years

## Apprentice Fitter

Nov 2019 - Nov 2021

As an apprentice fitter at K Electric, I was trained by experts in the Transmission Overhead department. It was a great two years of journey. However as I always had an interest in computers, I learned programming during this apprenticeship period, which helped me switch careers after the apprenticeship.