

Mustafa Abdallah

As a Backend Engineer with a degree in Computer Engineering, I have gained experience working with clients based in both Europe and the Americas. With strong professional English communication skills and a flexible attitude towards learning new technologies, I am seeking an opportunity to enhance my experience by joining a skilled team and tackling challenging problems.

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EXPERIENCE

Freelancer + Improving my skills

AUG 2022 - PRESENT

Working on DevOps, Serverless and Backend projects for clients from Germany, Sweden, the United States and Switzerland. Improved my skills in DevOps (Docker, Terraform, CI/CD) and Cloud (AWS, Azure, GCP). Learning Microservices, Kubernetes and Golang.

Soundwav.io, Toronto, Canada — Backend Engineer

MAY 2022 - JUL 2022 (Remote/Contract)

A collaboration platform for musicians. I was part of a three-person team in an Agile environment with Jira, Git and Github. Where I was tasked with building the MVP using Python, Django, PostgreSQL, TypeScript, and React.js.

- Facilitated the successful launch of the initial MVP in under two weeks
- The successful launch of the MVP garnered positive feedback from investors and created funding opportunities

Medicore Medical Services, Dublin, Ireland — Backend Engineer

JAN 2021 - MAY 2022 (Remote/Full-Time)

An ambulance service utilizing technologies in healthcare and crisis management. I was working with the manager directly by developing their internal platform in an Agile environment with Jira, Git and Github. Where I was tasked with refactoring, adding features and fixing bugs using Python, Django, PostgreSQL, TypeScript and React.js.

- Implemented a secure platform with JWT authentication and device registration, featuring admin approval
- Integrated an offline mode feature to support platform use in low-connectivity regions
- Developed a dynamic form builder that returns JSON, allowing submission of answers via an Android app UI
- Deployed the API on DigitalOcean with Nginx and ensured its encryption with HTTPS

Itesyl Technologies, Nairobi, Kenya — Backend Engineer

APR 2021 - FEB 2022 (Remote/Part-Time)

A firm creating business banking solutions. I was part of a five-person team building their real-estate and e-banking solution in an Agile environment with Jira, Git and Github. Where I was tasked with developing the backend API using Python, Flask, and PostgreSQL. As well as building a WhatsApp chatbot using TypeScript, Node.js, DialogFlow, Twilio.

- Improved backend API performance by implementing database column indexing and caching
- Implemented secure two-factor and biometric authentication and authorization features

SKILLS

Backend: Python, Django, Flask, PostgreSQL, MySQL, TypeScript/JavaScript, Node.js, Express.js, MongoDB.

DevOps/Cloud: AWS, Azure, GCP, Docker, Terraform, CircleCI, GitHubActions, Git, GitHub, Agile, Jira, Bash.

Others: Data Structures, Algorithms, Design Patterns, Serverless (AWS CDK, AWS Lambda, API Gateway, DynamoDB).

PROJECTS

CrewTech: Django backend API with AWS infrastructure

- Deployed the API to Amazon Web Services (AWS) utilizing services such as EC2, RDS, S3, and ECR
- Containerized the backend using Docker and Docker Compose for easier deployment
- Automated infrastructure management with Terraform
- Streamlined deployment and testing processes through CI/CD with CircleCI
- Implemented the use of Poetry as the dependency and package manager for more efficient management
- Adopted a Test-Driven Development approach and wrote unit tests using Pytest

Kodeec: Flask backend API with Microsoft Azure infrastructure

- Deployed to Microsoft Azure and wrote the infrastructure using Terraform
- Utilizing resources including VNet, Virtual Machine, Database for PostgreSQL, Blob Storage, and ACR
- Containerized the backend using Docker and Docker Compose
- Automated deployment and testing with CI/CD using GitHub Actions
- Implemented Poetry as the dependency and package manager, replacing requirements.txt files
- Adopted a Test-driven development approach, writing unit tests with pytest

Soundway: Django backend API with GCP infrastructure

- Deploying to Google Cloud Platform (GCP) and creating the infrastructure with Terraform
- Utilizing services such as Google Cloud Compute Engine, Storage, SQL (PostgreSQL), and Container Registry
- Containerizing the backend using Docker and Docker Compose
- Automating deployment and testing with CI/CD using Jenkins
- Adopting Poetry as the dependency and package manager instead of requirements.txt files
- Implementing a test-driven development process with pytest unit tests

Formbull: A serverless API using AWS CDK, Python, AWS Lambda, API Gateway and DyanmoDB.

SovirApp: An eCommerce app built with React Native, TypeScript, Node.js, Express and MongoDB.

DesignPatterns: Implementation of some of the design patterns with C++, Java, Kotlin, JavaScript, Python and Ruby.

Hafyz: (Graduation Project) A face recognition Java Android app with Flask API.

EDUCATION

Minia University, Minya, Egypt — B.Sc. in Computers Engineering

SEPT 2015 - SEPT 2020

VOLUNTEERING

IEEE Minia University, Minya, Egypt — Social Media Marketing Specialist

NOV 2017 - APR 2018

As a volunteer in the social media team at IEEE Minia University, I was part of a three-person group responsible for creating and publishing content about the branch's news, events, and competitions. My role involved creating content, managing social media channels, and covering events as they took place.