Mustafa Abdallah

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I'm a Backend Engineer with a Computer Engineering degree, experienced in collaborating remotely with international teams across Ireland, Canada, and Kenya. Also, I've helped clients in Germany, Sweden, Switzerland, and the USA with freelance projects. 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 international and professional team and tackling challenging problems.

LANGUAGES

English	Arabic	Deutsch
Professional	Native	Basic

STACK: Python, Django, AWS, Docker

EXPERIENCE

Freelancer + Improving my skills

AUG 2022 - PRESENT — https://www.upwork.com/mustafaabdallah

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

Soundwav.io, Toronto, Canada — *Backend Engineer*

MAY 2022 - JUL 2022 (Remote/Contract) — https://soundwav.io

A collaboration platform for musicians. I was part of a three-person remote team split between Canada and Egypt 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
- Integrated the backend API to the React.js using Axios and Redux

Medicore Medical Services, Dublin, Ireland — *Backend Engineer*

JAN 2021 - MAY 2022 (Remote/Full-Time) — https://www.medicore.ie

Ireland's leading emergency service provider & training facilitators. I worked remotely 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) — https://www.itesyl.com

A firm creating business banking solutions. I was part of a five-person remote team split between Kenya and Egypt. 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, and Twilio.

- Improved backend API performance by implementing database column indexing and caching
- Implemented secure two-factor and biometric authentication and authorization feature
- Developed a PDF generator and sent generated files via Email using Celery
- Integrated notifications system with the power of Twilio and a local sms provider

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

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

Soundwav: 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

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.

SKILLS

Backend: Python, Django, Flask, PostgreSQL, Redis, RabbitMQ, Celery, TypeScript, 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).

EDUCATION

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

SEPT 2015 - SEPT 2020

EU Blue Card eligible university & degree.

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.