

# Abdallah Mohamed

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## Summary

I'm a Software Engineer and Team Leader at 2 companies, AAK Telescience and Gigawrks .

I have had more than 3+ years in the software industry and web development with many programming languages.

My main job in both companies is to design a proper software, database, and architecture including choosing the good database required for this mission and how many replicas we will need as we are scaling, cache system, a proper programming or scripting language required depends on algorithm, time required for the software, and software platform. Design and develop the API either it's a RESTful API or GraphQL. Write all of that into GitHub issues for the team to work on and choose my own task to complete after creating the working environment for them to avoid conflicts. Finally, I will review their PR with the other Team Leaders as the other Team Leaders review my PRs and commits.

I have built and designed many software and web services in AAK-Telescience and Gigawrks that I have used the following technologies for them ( Python, Django, FastAPI, Golang, FiberAPI, Rust, NodeJS, ScyllaDB, PostgreSQL, Jenkins CI/CD, DigitalOcean, AWS, RabbitMQ, Redis, Infrastructure as code[pulumi], etc.

## Experience

### Software Engineer | 05/2023 - Present | Gigawrks | Remotely, Florida

Working remotely in Gigawrks to develop microservices architecture software.

- Developing RESTful APIs with Python(FastAPI) and Golang (FiberAPI).
- Design the software starting from the software architecture, databases, Cloud infrastructure, CI/CD pipeline, and auto scalability.
- Doing some DevOps work including building the Infrastructure as code with pulumi and CI/CD pipeline with Jenkins, GitHub actions, Monitor the system components with different tools.
- Enhance the old microservices, increasing performance of the service.
- Designing database tables and software to make sure they are efficient, flexible, understandable, and maintainable.
- Choose the tools that should be used in each microservice to make sure it will fit the business requirements.
- Write and manage tasks for the team.

### Software Engineer & Team Leader | 01/2023 - Present | AAK telescience | Remotely

Working remotely with more than 70 developers in AAK telescience to develop microservices architecture systems for the NEW AAK platform.

- Developing RESTful APIs with Python(Django, FastAPI) and Golang (FiberAPI).
- Enhance the old API endpoints, increasing security and performance of the old endpoints and new endpoints.
- Designing database tables and software to make sure they are efficient, flexible, understandable, and maintainable.
- Choose the tools that should be used in each microservice to make sure it will fit the business requirements.
- Write and manage tasks for the team.
- Working DevOps culture with the team to manage the software products and features.

### Software developer | 10/2021 - 11/2022 | OnTime for general contracting | Alexandria

- Developing a full stack software for company's projects some of them was in Alexandria university and other in different hospitals.
- Testing old software for bugs and develop it.
- Manage the IT team for the company and company's projects.

**Stack: Python, Django, REST API, HTML, CSS, JavaScript.**

## Contact

- [Portfolio: abdoo.live](https://abdoo.live)
- [Linkedin: abdalrahman-hossam](#)
- [GitHub: abdoohossamm](#)
- [Youtube: CodeMorning](#)
- [LeetCode: abdoohossamm](#)

## Skills

Problem solving, Software Engineering(SDLC, Algorithm analysis), Team work, Test Driven Development.

### Language & Framework

Python (Django, FastAPI), Golang(FiberAPI, Gin), NodeJS (Express).

### Tools & Softwares

Git (Github, GitLab), CI/CD, Docker, AWS, Digital Ocean, Unix/Linux, Redis, RabbitMQ, MongoDB, ScyllaDB, PostgreSQL.

## Education

**B.S. Computer Science | University of the People, (Online study) | 05/2023 | California**

- Graduated with 3.85 CGPA with High Honors with focus major on the software engineering.
- President's list every term in university

## Projects

### Smart Gates Alexandria University.

Software developer and IT support

- Working in IT team to build the servers, and developing team to create software.
- This project is made for Alexandria university to control the gates and count the students inside the campus for later analysis by developing 2 different software calling connecting with each other as services.
- The first software create and manage the students cards and print it and contact with other services to get and send data between them. Also it shows the analytics that was made by other software through an API.
- The second software is the gate handler this software is running on 6 different gates for the campus that is running on 5 different monitor one for each NFC card reader the monitor shows the student's status when he enter the campus by waving his card to the card reader on the gate.
- **Stack: Django, Django Rest API, Microservices, Selenium, System Administration, IT support**

### Dar Al-ahisan

Software developer

- I worked alone in this project as a freelancer to develop a web application that works locally for a learning center called Dar Al-ahisan.
- The application manages the students, lessons, teachers, and employees.
- The application manages the students lessons, the teacher who will teach the lesson, and number of employees will be there at this time.
- Handling the student payment by the lesson they study per month.
- **Stack: Django, Django templates, Vanilla JavaScript, Bootstrap, PostgreSQL**

### Tri Force UAE

PHP developer

- This application is an example for 1 day application as the client wanted it in 1 day.
- The web application was developer for a company for for general contracting in UAE.
- WordPress was used in this application for a fast build and developing.

- **Stack: PHP, WordPress**

## My Portfolio

Project owner

- This app shows my portfolio for projects I did, my experience, everything up to date about me.
- **Stack: React.js, Next.js, Tailwind CSS**

## Ecommerce

Self-development

- Ecommerce website made using django and vueJS running on docker containers and each application run as an independent service.
- **Stack: VueJS, Django, Django REST API, PostgreSQL, Redis, Docker, Paypal API**

## ChatYou

Self-development

- Basic Real-time Chat App that allow one user with high permission can create a room and talk to other joined the room. or can have 1 to 1 chat with their friends.
- **Stack: Django, Django REST API, Web Sockets, Bootstrap, Redis.**

## Certificates

### [Advanced Django: Mastering Django and Django Rest Framework \(4 courses\)](#)

- Advanced Django: Building a Blog
- Advanced Django: Introduction to Django Rest Framework
- Advanced Django: Advanced Django Rest Framework
- Advanced Django: External APIs and Task Queuing

### [Django for Everybody Specialization \(4 courses\)](#)

- Web Application Technologies and Django
- Building Web Applications in Django
- Django Features and Libraries
- Using JavaScript, JQuery, and JSON in Django

### [Google IT Support Professional Certificate \(5 courses\)](#)

- The Bits and Bytes of Computer Networking
- System Administration and IT Infrastructure Services
- Technical Support Fundamentals
- Operating Systems and You: Becoming a Power User
- IT Security

### [Python for Everybody Specialization \(5 courses\)](#)

- Python Data Structures
- Capstone: Retrieving, Processing, and Visualizing Data with Python
- Using Databases with Python
- Using Python to Access Web Data
- Programming for Everybody

### [Data Structure and Algorithms Analysis](#)