

# Ahmed Moustafa

## JUNIOR SOFTWARE ENGINEER

☎ +20 101 775 9069 | @ geekahmed1@gmail.com | 🔗 LinkedIn | 🐙 GitHub | 📁 Portfolio | 📍 Cairo || Alexandria, Egypt

### Education

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#### Zagazig University

*B.Sc. in Computer and Systems Engineering; Grade: Very Good*

Zagazig, Egypt

Sep 2017 – July 2022

### Work Experience

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#### SEITech Solutions

*DevOps Engineer Intern*

Smart Village, Egypt

Aug 2022 – Oct 2022

- Successfully created and maintained automated CI/CD pipelines for code development using Jenkins while automating the deployment process, resulting in the elimination of 70% of manual work and escalation of work efficiency.
- Monitored the deployments in production using Prometheus and Grafana.
- Used Jenkins to automate build and deployment that reduced human error and sped up production processes.
- Automated infrastructure creation on the cloud using Terraform.
- Built a RESTful API using Python and FastAPI to manage the infrastructure in the cloud.

#### Avidbeam Technologies

*Full-Stack Developer Intern*

Cairo, Egypt

Oct 2021 – Dec 2021

- Wrote functional, unit, and integration tests for application quality assurance using Rspec.
- Used version control tool Git and code storage tool Gitlab for added application functionality.
- Implemented a background task for retrieving data from the database in CSV format using Sidekiq in Ruby language.
- Built new user interface components using ReactJs and Ant Design library.

#### DevisionX

*Software Engineer Intern*

Cairo, Egypt

Sept 2020 – Nov 2020

- Built fully automated CI/CD pipelines on Gitlab CI/CD and Jenkins for containerized applications using Docker and AWS EC2.
- Partnered with a machine learning engineer to implement RESTful APIs in Flask, enabling the AI team to expose their models.
- Customized an annotation tool (Universal Data Tool) based on needs using ReactJs.

#### Raye7

*Android Developer Intern*

Cairo, Egypt

Sept 2020 – Dec 2020

- Involved in the project's full life cycle, including analysis design, development, debugging, testing, and deployment.
- Collaborated with colleagues in building a native Android application for e-commerce using Kotlin, MVVM, and PayTab.
- Optimized the interfacing of the app with a variety of systems to ensure flexible and agile use.

### Projects

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#### Jenkins high availability and scalability on Kubernetes | [Article](#) | @SEITech Solutions

- Automated AWS EKS and Azure AKS creation with Terraform.
- Deployed Jenkins with the help of Helm charts.
- Configured Jenkins using JCasc (Jenkins Configuration as Code).
- Integrated Jenkins with AWS S3 to store build artifacts.
- Configured the pipelines to use Kubernetes pods as Jenkins agents with dynamic Docker images.
- Integrated the system with Github organization to pull all the projects with Jenkins file defined.
- Monitored the infrastructure with Prometheus and Grafana.
- Built a Web app for infrastructure automation and Jenkins configurations using Python, FastAPI, and MongoDB.

## Visit Egypt | [Demo](#) | [Github](#) | @Zagazig University - Graduation Project

- Gathered and updated project materials, completing budgeting, forecasting, project documentation, business flows, and lessons learned documents.
- Coordinated all Scrum Ceremonies including Sprint Planning, Daily Standups, Sprint retrospectives, Sprint Demos, Story Grooming, and Release Planning.
- Liaised between developers and project stakeholders; fostering quality communication between engineering disciplines.
- Implemented low-latency Restful APIs using FastAPI.
- Worked with a variety of datastores including MongoDB and Redis.
- Used AWS SNS in implementing push notifications features.
- Exploited AWS S3 to be the main object datastore for the 3D models.
- Integrated ELK stack for monitoring and logging management.
- Utilized Github Actions in building CI/CD pipelines for different services.

## LaceGarment | [Google Play](#) | @Raye7

- Collaborated with 2 developers in building an e-commerce android application.
- Used Kotlin language and Clean Architecture.

## Students Attendance Management System | [GitHub](#) | @Zagazig University

- Implemented a REST API for student attendance app using Python and Flask.
- Armed with PostgreSQL and SQLAlchemy ORM, persisted API data.

## Skills

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**Programming Languages:** Python, Javascript, Golang (basics), SQL

**Databases:** MongoDB, Elasticsearch, Redis, Postgresql

**Back-end:** FastAPI, ExpressJs, Flask

**Front-end:** HTML5, CSS3, ReactJs, Redux, MaterialUI

**Cloud:** AWS, CloudFormation, Terraform

**Automation:** Jenkins, Github Actions, CircleCI

**Deployment:** Kubernetes, Docker

**Monitoring:** Prometheus, Grafana

**Tools:** Git, Linux

## Courses and Nanodegrees

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**AWS Cloud Architect**

*Udacity*

*August 2022*

**AWS Cloud DevOps Engineer**

*Udacity*

*April 2021*

**Advanced Web Development**

*Udacity*

*July 2020*

**Programming with Go**

*Coursera*

*May 2020*

**C Programming with Linux**

*Edx*

*Dec 2020*

## Volunteering

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**IEEE Zagazig Student Branch**

*Computer Society Chairman*

*Zagazig, Egypt*

*Jun 2020 – Jan 2021*

- Led 14 students in executing a learning plan.
- Participated in developing branch vision and mission.

**Google Developers Student Clubs**

*Founder*

*Zagazig, Egypt*

*July 2020 – July 2021*

- Reformed the society focusing on software engineering and building a network on and off campus.
- Proposed various marketing and network activities to raise awareness.
- Conducted workshops and sessions in the tech field.