

Moaz Mohamed Hassan

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GitHub: [GitHub](#), LinkedIn: [LinkedIn](#)

Education

Computer Engineering Department, Faculty of Engineering, Cairo University, Giza, Egypt

2019-2024

Accumulative GPA: 3.5

Experience

[Appgain.io](#), Cairo, Egypt

Backend Developer (June 2023 – Till now)

- Created **2** backend applications (microservices) to communicate with other microservices in the system in **Agile** environment.
- One of them is a public [Shopify](#) app to be installed on clients stores and integrated with our database and dashboard.
- Other one is a push sender to effectively send push notifications(app push and web push) to many users using asynchronous calls and batches to fasten the sending process to [FCM](#) and [APN](#), this service enhanced sending process time to about **100000** users by more than **90%**.
- Implemented independent tasks to fix issues or add features in other microservices and other products as it is a product company.
- Integration with the frontend team, and creating API documentation using Postman.
- **Technologies:** Flask, Node.js, Express.js, Next.js, MongoDB, PM2, Docker, gitlab, Postman, and Jira.

[Safecotech Solutions](#), Cairo, Egypt

Backend Developer (July 2022 – March 2023)

- Created **55 API endpoints** in the backend applications of a website for IT ticket submission and resolution, and deployed it using Heroku, and a website for a client called [Digitize](#).
- Direct client communication experience required to analyze and implement the client's requirements.
- Worked in an agile environment, created API documentation, and collaborated with the frontend team.
- **Technologies:** Node.js, Express.js, MongoDB, Postman, and Heroku.

[Mostagel Freelancing Website](#)

Backend Developer (July 2021 – October 2021)

- Created the backend application of 2 websites with Django framework, and deployed them with Heroku.
- Direct client communication for website requirements analysis and project planning.
- **Technologies:** Django, PostgreSQL, SQLite, and Heroku.

Skills

Languages	JavaScript, TypeScript, C++, Python, Java, C#, C.
Frameworks	Node.js, Express.js, Nest.js, Flask, Django, PyTorch.
Databases	MongoDB, MySQL, PostgreSQL, MS SQL Server, SQLite
Others	HTML & CSS, Git, Docker, CircleCI, AWS, Arduino, Matlab.

Projects

RedditX Clone – [Cairo University](#)

- It is a MERN website to make a Reddit clone that was implemented for the Software Engineering Course by a team of 19 students, distributed into multiple small teams, Backend, Frontend, Cross-Platform, DevOps, and Testing teams.
- Created **31 API endpoints** in the backend application.
- Created seeds and scripts to quickly drop and insert the seeds.
- Implemented end-to-end tests, unit tests and created API documentation using Swagger.
- Worked in an agile environment with weekly sprints and periodic meetings to refine sprint requirements.
- Created function documentation using Jsdoc.

Technologies:

- Node.js, Express.js, MongoDB, Supertest, Jest, Swagger, Postman, Jsdoc, Nodemailer, and Pug templates.

Details:

- [GitHub Repository](#)

Arabic Text Diacritization– [Cairo University](#)

- An NLP project that accurately restores diacritics of Arabic language sentences.
- We use characters level embedding with Bi-LSTM as the model network.
- We trained the model on 50K text lines, achieving 97.78% accuracy on the test set as an average.

Technologies:

- Python, PyTorch, and Jupyter Notebook.

Details:

- [GitHub Repository](#)

Hand Gesture Recognition – [Cairo University](#)

- A machine learning-based project that accurately recognizes and interprets hand gestures (from 0 to 5).
- We used HOG for feature extraction, and SVM for classification.
- This project has potential applications in robotics, healthcare, and gaming, offering a new way to interact with machines.

Technologies:

- Python, Jupyter Notebook, and OpenCV.

Details:

- [GitHub Repository](#)

Certificates

- Advanced Cloud DevOps Course by Udacity, [Certificate](#)
- 2nd place in the 6th Undergraduate Engineering Mathematics Research Forum, [Certificate](#)
- Certificate of Completion - Safecotech Software Engineer Internship Program, [Certificate](#)

Extra-curricular Activities

- Scouts Leader of my college Rovers Clan from 2019 to 2021.
- Member of my college Student Union from 2019 to 2020.