

BASEM MOSTAFA MAHMOUD MOSTAFA

BACK-END SOFTWARE ENGINEER

Nationality: Egyptian

Email: basem.mostafa1698@gmail.com - **Phone Number:** +201092369774

A Back-End Software Engineer with 1 year of practical experience in building both Monolith- & Microservices-based RESTful & GraphQL APIs, and a Software Engineer With a language- & tool-agnostic approach to Software Development, a knack for proper Engineering & Architecture, and a passion for Computer Science.

Portfolio

- **My Personal Portfolio (Web Project)** ([Go To Website](#)) ([Go To Codebase](#))
- **My GitHub Account** ([Go To Profile](#))
- **My LinkedIn Account** ([Go To Profile](#))

Work

- **Back-End Software Engineer – Arab African International Bank (AAIB)** (October 2022 – Now)
 - Responsibilities/Projects:
 1. **AAIB Mobile Banking App (Microservices) (Existing Project)**
(TypeScript, Express.js, Kafka, MongoDB, GraphQL Gateway)
 - Integrate a mobile security framework with the app's existing Security microservice for fraud management.
 - Write a script that automates starting up all the app's back-end +10 microservices.
 - Create & integrate new endpoints with the organization's internal core banking services.
 2. **AAIB Merchant Portal (Microservices) (New Project Worked on From Scratch)**
(TypeScript, Nest.js, RabbitMQ, MongoDB, GraphQL Gateway)
 - Design & build all the project's 10 microservices as a team of 2 Back-end developers.
 - Design & build the project's database using MongoDB.
 - Create a custom RabbitMQ implementation in Nest.js for inter-service communication.
 - Integrate with online payment gateways (Cybersource and MPGs)

Professional Training & Internship

- **MEARN Development Intern – Arab African International Bank - Information Technology Institute (ITI)**
(ITI/AAIB Academy Internship Track) (March 2022 – August 2022)
 - Projects:
 1. **Medical Appointments Website (Web Project) (Team Project)** ([Go To Website](#)) ([Go To Codebase](#)):
 - A responsive full-stack web application built with the MERN stack.
 - My responsibilities as a full-stack developer in the team:
 - Implement the doctor's application multi-step form in **React.js**
 - Design the wireframes and visual design of the website on **Figma**
 - Implement authorization/authentication strategy using **JWT & http-only** cookies
 - Implement a total of 35 endpoints for the 3 roles
 - Implement the API's documentation using Swagger & swagger-express-ui
 - Deploy & maintain both the back end on Heroku and the front on Netlify

- **MEAN stack training - IT Share**

(August 2019 – November 2019)

- Project:

1. **Czech – English Word Game (Web Project)** ([Go To Website](#)) ([Go To Codebase](#)):

- A word game for students of English and Czech to practice their vocabulary, keep track of new words learned and compete with the top 5 players to show off their vocabulary knowledge
- Built using Vanilla JavaScript, CSS3, HTML, Node.js, Express.js and MongoDB
- Mongo Atlas cloud (DBaaS) and Heroku (PaaS) were used as the cloud services needed

Education

- **Bachelor of Arts (BA) – Faculty of Al-Alsun, Ain Shams University:**

(Graduated - 2020)

- **Major:** Slavic Languages and Literature, Czech Language division
- **Minor:** German as a second language
- **Overall percentage/grade/GPA:** 83.7% / Very Good / 3.35

Courses & Achievements

- Web Development Professional Nanodegree - FWD Egypt Initiative (August 2020 – October 2020)
- JS Algorithms and Data Structures certification – FreeCodeCamp (December 2019 – February 2020)
- 1st place in the Czech creative writing contest – Czech department, the faculty of Al-Alsun (March 2019)

Skills

1. **Back-end**

- Node.js (Express.js and Nest.js) - GraphQL – TypeScript – JavaScript – Kafka - RabbitMQ

2. **Front-end**

- HTML5 – CSS3 – Figma - React.js - Angular 14 – Redux – GraphQL

3. **Databases**

- MongoDB – SQL Server

4. **Automated Testing** (Unit, Integration, E2E)

- Jest – Mocha - Jasmine

5. **Version Control**

- Git CLI - GitHub - GitLab

6. **DevOps**

- Docker (Writing Docker files and dealing with containerized applications)

7. **Agile**

- Experience with working in self-organized agile squads under the SCRUM framework, and the Spotify model.
- Experience with working on Jira

Languages

- **Arabic** (Native)
- **English** (Fluent)
- **Czech** (Intermediate)