

# BASEM MOSTAFA MAHMOUD MOSTAFA

## BACK-END DEVELOPER

**Nationality:** Egyptian

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

A Back-End Developer 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 Developer – 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)**
- 1<sup>st</sup> 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
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)
  - Kubernetes
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)