

Ali Abuelkheir

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SUMMARY

Computer Engineering student with strong academic grounding and practical experience. Proven track record delivering secure, scalable applications using Spring Boot and MERN. Demonstrates strong problem-solving, and fast learning across multidisciplinary projects.

EDUCATION

Bsc of Computer Science Engineering

German University in Cairo (GUC) • Expected Graduation: 2027 • Excellent GPA

EXPERIENCE

Software Engineer Intern

AIDigits

March 2025 - May 2025

- Built a custom Autodesk Viewer application using **Node.js**, enabling users to upload, view, and interact with BIM models, including element search and isolation.
- Integrated Autodesk Platform Services (APS) APIs such as Model Derivative and OSS for model conversion, storage, and visualization workflows.
- Demonstrated self-driven learning and adaptability by progressing from basic viewer features to understanding advanced APS concepts and SDKs.

Software Engineer Intern

FAB Misr Bank

July 2024 - August 2024

- Gained hands-on experience with **Spring Boot** and its core modules (JDBC, JPA, Hibernate, Spring Security, Spring Data, and Spring Web).
- Developed an end-to-end E-library web application with admin/user dashboards and backend-frontend integration using **Spring Boot**.
- Learned and applied **OutSystems** to build a functional low-code CRUD application backed by a working database.

PROJECTS

eventflow

Express Node.JS | MongoDB

- Developed a secure backend using **Express** for an event management system featuring user roles, event booking, and authentication using **JWT**.
- Implemented **RESTful APIs** with pagination, authorization and validation, integrating **MongoDB Atlas** for cloud-based storage.
- Tested API endpoints thoroughly with **Postman**.

SCADintern Compass

React | Typescript | Tailwind

- Developed a **frontend-only prototype** of a role-based internship management platform.
- Implemented advanced UI features including using **React hooks**, Tailwind CSS, and Lucide icons.
- Built systems for applicant tracking, interview scheduling, and performance evaluation with automated status transitions.
- Structured the frontend with reusable components, consistent styling, and strong **TypeScript** interfaces for scalability and maintainability.

Telecom Company Web Application

Spring Boot | MYSQL

- Developed a full-stack **Spring Boot** application for a telecom company, integrating **SQL Server** for database management and writing custom SQL procedures, functions, and queries.
- Utilized **Spring Data JPA** to interact with the database and reduce boilerplate code using **Lombok** for model classes.
- Implemented **Spring Security** for authentication, authorization, and error handling.
- Structured the application following **Spring Web** best practices with clear separation of concerns across models, repositories, services, and controllers.

CERTIFICATIONS

Data Engineering Using Python

DataCamp • 2025

- Developed proficiency in **Pandas** for data manipulation, analysis, and transformation.
- Gained hands-on experience in **ETL/ELT pipelines**, data modeling, and cloud-based data processing.