Andrew Amin Baky

Cairo ✉ andrewamin37@gmail.com ☐ 01278579441 in LinkedIn Profile ○ Github Profile ◇Military Status: **Exempted**

EXPERIENCE

Fullstack Internship

Algoriza   July 2025 - Present

- .NET + react with mentorship from Algoriza team with tasks and projects to complete.

EDUCATION

Bachelor of Computer Engineering   2020-2025

Helwan University · 3.2 GPA

PROJECT

Smart Waste Management Solution

Graduation project

- **Tech Stack: Java, Spring Boot, MySQL, Here API, Next.js**.
- Developed a smart waste management Solution integrating IoT-enabled bins and route optimization using HERE api.
- Designed the database schema and RESTful API architecture.
- Integrated HERE API into the backend to generate optimized truck routes based on real time bin fill level data and geolocation
- Designed and implemented the Dashboard frontend using Next.js and MUI including bin status monitoring, collection task management and route visualization using map components.

Automatic Spotify Downloader

- **Tech Stack: JavaScript, ES6 modules, Spotify API, YouTube API.**
- Integrated Spotify API with OAuth2 to fetch track metadata and use YouTube-dl to download matching songs from YouTube.
- Dockerized the entire application using a custom Dockerfile.

SKILLS

Soft Skills : Communication Skills, Teamwork, presentation, listening, critical thinking

Programming Languages : Java, C++, Python, JavaScript

Software Development Principles : OOP, Solid principles, Data Structures, Algorithms, clean code

Backend Technologies : Spring Boot, Spring MVC, Node.js, Express, RESTful API, docker

Frontend Technologies : React, Next.js, MUI

main OS : Linux

Version Control : Git, GitHub

Web Security : secure code, OWASP, JWT Auth

CERTIFICATIONS

Node js The Complete Guide MVC REST APIs

UDEMY · 2024

ITI Cybersecurity training

Information Technology Institute (ITI) · 2024

- Gained foundational knowledge in web application security, computer networking principles, and ethical hacking techniques

LANGUAGES

- Arabic: Native

- English: C1 (advanced)

INTERESTS

- fishing, traveling, repairing broken stuff