

Islam Sobhy

Computer Science Student

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SUMMARY

Computer science student with knowledge of back-end development with Express and MongoDB, algorithms, data structures, Linux administration, and network fundamentals, interested in building effective and efficient back-end applications.

EDUCATION

Menofia University - Bachelor of Computer Science
Relevant Coursework:

Sep. 2021 – May 2025

- Data Structures
- Algorithms
- Operating Systems
- OOP
- Database
- Networking

PROJECTS

- **NatoursAPI** — Tour Selection API — Node.js, Express, MongoDB
 - Developed an API for browsing and comparing tours with features like login, sign up, and user access tokens using JWT.
 - Integrated MongoDB for scalable storage of tour and user data.
 - Implemented security measures such as JWT for user access tokens and Crypto for random token generation.
 - Followed MVC architecture for code maintainability and separation of concerns.
 - Ensured efficient error handling using global middleware for consistent responses.
- **Personal Blog** — HTML, Sass, Express, MongoDB
 - Developed a personal blog application to manage users' publishing, editing, or deleting their blogs.
 - Implemented an easy-to-use, user-friendly UI using HTML, Sass, JavaScript, and EJS as a templating language.
 - Constructed API models using Mongoose schema and built routes using the Express framework.
 - Established a strong component architecture using the MVC architecture.
 - Used JWT, Cookie Parser, and bcrypt modules for robust authentication and authorization.
- **Mapty** — Activities tracker — HTML, CSS, JavaScript
 - Constructed a physical activities tracker to track and record physical activities such as running or cycling and record them on a graphical map.
 - Implemented the map feature using the Leaflet library.
 - Utilized OOP concepts for building every workout property.
 - Recorded each activity on the map using Local Storage API.
- **Library Management System** — Library Management System — C++
 - Developed a library management system to handle processes such as adding books, searching for books, and managing user borrowing and returning.
 - Implemented using object-oriented programming concepts in C++.
 - Features a user-friendly menu-driven interface for easy navigation.
 - Supports functionalities like adding users, borrowing and returning books, and printing library information.
 - Utilizes data structures like arrays and strings for efficient storage and retrieval of library and user data.

TECHNICAL SKILLS

- **Languages:** HTML/CSS, JavaScript, C++, Python, Bash Scripting
- **Technologies/Frameworks:** Express
- **Developer Tools and Platforms:** Git, GitHub, VS Code, MongoDB, Compass
- **Skills:** Data Structures & Algorithms, Operating Systems Networking, Competitive Programming

ACHIEVEMENTS

- Participated in ICPC ECPC qualifications 2022.
- [Youtube Channel](#) — Youtube Channel for Simplifying C++ and Competitive Programming
- Solved over 1000 problem-solving problems on various platforms such as Codeforces, CodeChef, and UVA.