MOHAMED HOSSAM

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SUMMARY

Aspiring Backend Developer with strong hands-on experience in Python, Django, and RESTful APIs. Solved over 200+ algorithmic problems using C++ on Codeforces and VJudge, and currently solving LeetCode challenges using Python, documented in a public GitHub repository.

Highly passionate about Open Source Contribution — actively preparing for Google Summer of Code (GSoC) and looking forward to contributing to real-world public codebases. Engaged in peer-learning communities, GitHub collaboration, and knowledge sharing.

Built multiple production-ready projects with live demos and clean architecture including banking systems, library managers, and e-commerce platforms. Familiar with spaCy, OpenCV, and scalable software design.

Fast learner, detail-oriented, and eager to work in Agile teams to develop clean, tested, and maintainable backend systems.

EDUCATION

Bachelor of Computer Science – Nahda University, Beni Suef
Expected Graduation: 2028
GPA: 3.23 / 4.0

TECHNICAL SKILLS

- **Languages: Python, JavaScript, C++**

- **Backend Development: Django, Django REST Framework, Python (OOP), RESTful APIs**

- **Databases: MySQL, MongoDB**

- **Frontend: HTML, CSS, JavaScript**

- **AI & NLP: OpenCV, spaCy**

- **Version Control: Git (CLI), GitHub (PRs, Branching, Merge Conflict Resolution)**

- Tools: VS Code, Bash (WSL2), Postman, GitHub Actions (basic)

- Software Concepts: MVC, Authentication (JWT, OAuth2), Agile (Trello), Unit Testing

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PROJECTS

Watch E-Commerce Platform
Built a fully responsive front-end e-commerce site for watches using HTML, CSS, and JavaScript.

- **Designed dynamic product pages and user-friendly layout to improve user engagement and UI/UX.**

- **Automated weekly inventory updates with JavaScript scripts, saving 8+ hours of manual work using DOM manipulation and ES6 functions.**

- **Structured reusable UI components and followed modular code architecture best practices.**

- **Applied Git version control workflows, including branching, commits, and pull requests, to manage updates and handle feature development efficiently.**

Personal Portfolio Website
Developed an interactive and mobile-responsive portfolio website to showcase my technical background, skills, and project work.

- **Used responsive web design (RWD) techniques for seamless experience across desktop, tablet, and mobile.**

- **Applied semantic HTML5 elements and accessibility (a11y) principles for broader reach and better SEO visibility.**

- **Highlighted backend and frontend integration, live demos, and code repositories using GitHub Pages.**

Banking System Simulator (Python OOP)
Created a Command-Line Interface (CLI) banking simulation using Object-Oriented Programming (OOP) principles in Python to model real-world banking operations.

- **Processed over 10,000+ simulated transactions with zero data errors and ensured data integrity.**

- **Implemented robust exception handling, encapsulation, and validation logic for secure deposits, withdrawals, and balance checks.**

- **Emphasized on software architecture, clean code, and testability for maintainability.**

Library Management System (Python OOP)
 Designed and built a terminal-based application for managing book inventory and library members using Python.

- **Implemented borrowing/return logic with status tracking, data persistence using file I/O, and user interaction flows.**

- **Followed modular design, code reusability, and functional decomposition for clarity and scalability.**

JavaScript Games Collection
A collection of browser-based games built using HTML, CSS, and vanilla JavaScript.

- **Features interactive gameplay, DOM-based animations, and responsive UI.**

- **Code is structured with reusable components and comments for educational reuse.**

CERTIFICATIONS

- **CS50x – Introduction to Computer Science, Harvard**

- **ALX Professional Foundations**

- **Currently Enrolled – ALX Back-End Web Development Program**

ADDITIONAL INFORMATION

- **Languages: Arabic (Native), English (Fluent – full interview readiness)**

- **Problem Solving: 200+ problems using C++ (Codeforces/VJudge), active Python-based LeetCode repo**

- **Open Source: Preparing for GSoC, aiming to contribute to backend tools, automation, and infrastructure**

- **Soft Skills: Strong communication, adaptability, attention to detail, collaboration**

- **Community Involvement: Active on GitHub, LinkedIn, and learning-focused spaces**