

# MOHAMED HOSSAM

Beni Suef, Egypt | m.hossam1050@nub.edu.eg

GitHub: [github.com/mo-hossam-stack](https://github.com/mo-hossam-stack) | LinkedIn: [linkedin.com/in/mohamed-hossam-dev](https://linkedin.com/in/mohamed-hossam-dev)

## 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 aiming to contribute to real-world public codebases, particularly in Python/Django ecosystems. Engaged in peer-learning communities, GitHub collaboration, and knowledge sharing.

Built multiple production-ready projects with live demos and clean architecture, including advanced CRM systems, game development projects, personal portfolio websites, and backend API solutions. Experienced in Git version control and proficient with Linux for development and server environments.

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 (Scale: 4.0)

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** Django, Django REST Framework, spaCy, OpenCV, Pygame, Bootstrap 5

**Databases:** MySQL, MongoDB

**Frontend Development:** HTML5, CSS3, JavaScript (ES6+), Responsive Web Design (RWD)

**Version Control & Collaboration:** Git (Daily Use), GitHub (PRs, Branching, Merge Conflict Resolution)

**Operating Systems:** Linux (CLI, Bash, System Navigation, Scripting)

**Tools & Platforms:** VS Code, Bash (WSL2), Postman, GitHub Actions (basic)

**Software Concepts:** RESTful APIs, MVC Architecture, Authentication (JWT, OAuth2), Agile (Trello), Unit Testing

## Work Experience

### Django CRM (Customer Relationship Management Web Application)

Developed a modern, full-stack CRM system using Django with a responsive Bootstrap 5 UI and custom CSS theme.

- Implemented secure user authentication with registration, login, and logout functionality.
- Designed CRUD operations for customer records using Django ORM.
- Created a dashboard with sortable and responsive tables for managing customer data.
- Applied form validation (client/server-side) for data accuracy and security.
- Customized UI/UX with a dark theme, animated background, and accessible design.
- Utilized template inheritance and modular CSS for maintainability.
- Configured SQLite with flexibility to switch to PostgreSQL or MySQL.

### Chess Game (Python & Pygame)

Built a fully functional chess game with Pygame, implementing complete chess rules, advanced game logic, and a modern graphical interface.

- Implemented full chess rules, including legal move validation, capture mechanics, pawn promotion, and turn-based play.
- Added check, checkmate, stalemate, and draw detection with multiple game-ending conditions.
- Designed a clean, responsive chessboard UI with interactive move highlighting and game state indicators.
- Optimized performance with move caching and efficient validation.
- Designed for future extensibility (AI opponent, network play, game saving).

### 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 structured with reusable components and comments for educational reuse.
- Hosted on GitHub with public access for demonstrations and learning.

### **Personal Portfolio Website**

Designed and developed a fully responsive personal portfolio website to showcase projects, skills, and professional background.

- Built with HTML5, CSS3, and JavaScript for interactive and accessible UI.
- Implemented Responsive Web Design (RWD) for seamless viewing across devices.
- Applied semantic HTML and accessibility (a11y) standards to improve SEO and usability.
- Integrated project showcases with links to live demos and GitHub repositories.
- Deployed using GitHub Pages for global accessibility.

### **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)

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

**Open Source:** Preparing for GSoC 2025, targeting contributions to Python/Django open-source repositories

**Soft Skills:** Team Collaboration, Problem Solving, Time Management, Communication Skills, Adaptability

**Community Involvement:** Active on GitHub, LinkedIn, and technical learning communities