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# MOHANAD AHMED

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Portfolio: <https://mohanad-80.github.io/portfolio/>

## Profile

- Ambitious Computer Science student at Cairo University, specializing in backend development and web technologies. Experienced in building scalable e-commerce solutions during an internship at Slash Hub, leveraging expertise in NestJS, Prisma, and JavaScript frameworks. Skilled in API integration, database management, and software design, with a proven ability to deliver results in dynamic team environments.

## Work Experience

### Slash Hub - Backend Development Intern

2024-07 - 2024-12

- **Website Backend Development:** Worked on the backend development for Slash Hub's website, reusing more than 85% of the existing app code to ensure consistency and reduce duplication.
- **Unit Testing:** Achieved a 20% increase in testing efficiency by developing unit tests using Jest and implementing robust mock handling.
- **API Documentation:** Enhanced API usability by documenting 15+ endpoints with Swagger, ensuring clarity for frontend developers.
- **Database Management:** Reduced database query response times by 30% through query optimization in PostgreSQL, tested using pgAdmin4 and DBeaver.
- **Order Management System:** Improved order processing by designing and implementing a management system that tracked 100% of order updates.
- **Product Rating System:** Delivered a multi-dimensional rating system covering products, shipping, and sellers, planning to increase user engagement by 25%.
- **Payment Gateway Integration:** Integrated the Geidea payment gateway, including building APIs for direct payments and evaluating Pay by Link services.
- **Collaboration Tools:** Collaborated with a team of 4 developers, utilizing GitHub, Trello, and Discord to manage 50+ issues and pull requests.

## Projects

### IDGuard (VSCode Extension)

- Developed a Visual Studio Code extension to detect duplicate ID attributes in HTML code, improving code quality and efficiency for developers.
- Experimented with VSCode's extension architecture, enhancing personal coding efficiency and understanding software engineering principles.

### Blog Site

- Built a dynamic blog site using the MERN stack (MongoDB, Express.js, React.js, Node.js), incorporating features like post creation, comments, and a dark mode.
- Strengthened full-stack development skills and problem-solving by handling front and backend challenges.

### Weather Forecast Website

- Created a weather forecast website using a public API to retrieve and display real-time weather information for specific cities.
- Gained foundational experience in API integration and client-server interactions.

## Education

### Bachelor's degree in computer science

Cairo University

## Technical Skills

- **Languages:** JavaScript, TypeScript, HTML, CSS, SQL, C++, Golang
- **Frameworks & Libraries:** Node.js, NestJS, Express.js, React, AngularJS, Bootstrap
- **Tools & Platforms:** GitHub, PostgreSQL, MongoDB, Mongoose, SQLite, Prisma ORM, Swagger, CI/CD, Postman
- **Testing:** Jest, Unit Testing
- **Version Control:** Git, GitHub Actions
- **Software Design & Architecture:** MVC (Model-View-Controller), SOLID Principles, Design Patterns (Factory, Singleton, Observer, etc.), Agile methodologies
- **Soft Skills:** Problem-solving, Communication, Team collaboration, Leadership, Adaptability, Dependable and Responsible