Aya Amir

Junior Software Engineer (Full Stack)

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github.com/ayaam1r / ayaam1r.github.io (portfolio)

Professional Summary

Motivated Junior Full Stack Developer with hands-on experience building responsive and user-focused web applications using **React.js, Node.js, Next.js**, and **Laravel.** Skilled in developing RESTful APIs, working with **relational** and **NoSQL databases**, and writing clean, maintainable code. Familiar with modern development practices including Git version control, testing tools, and agile workflows. Passionate about learning, improving, and contributing to impactful and scalable digital solutions while growing within a collaborative engineering environment.

Technologies

Backend Development: Java, PHP (Laravel), Node.js, ASP.NET Core, RESTful APIs, Authentication & Authorization, MVC Architecture

Database & Storage: MySQL, SQL Server, MongoDB, Database Design & Query Optimization

Frontend Development: React.js, Angular, Next.js, JavaScript, TypeScript, HTML, CSS, Tailwind CSS, Bootstrap, Flutter (Dart), TypeScript

Cloud & DevOps: Docker, Jenkins, Linux, Bash, CI/CD Pipelines

Architecture & Design: OOP, Design Patterns (MVC, Singleton, Factory), UML, REST Architecture, SOLID Principles

Testing & Quality: Postman, Insomnia, Integration Testing, Unit Testing

Tools & Workflow: Git, GitHub, VS Code, Figma, Agile / Scrum

Experience

Information Technology Engineer (Internship), Banque Du Caire – Onsite   *Aug. 2024 – Sep. 2024*

- Completed daily technical training sessions led by the bank's IT department, gaining hands-on exposure to **Robotic Process Automation (RPA), Cybersecurity fundamentals, Data Analytics, Database Design/Management and more.**
- Worked collaboratively in a cross-functional team to research customer experience gaps, brainstorm solutions, and create a **functional prototype** for a new customer service feature.

Education

University of Helwan, BS in Computer Science   *Sep. 2021 – May 2025*

- **Coursework:** Software Engineering, OOP, Data Structures & Algorithms, System Design, Web Development, Databases, Agile/Scrum, Networks, OS, OOP, UML.

Projects

Moonlit Tails Bookstore *(Business E-commerce Web Application)*   *2025*

A full-stack e-commerce system built to manage real bookstore operations including product listings, customer accounts, and order processing.

Key Contributions:

- Built the full e-commerce system end-to-end, developing a **production-ready** system with real book data, stock management, and order handling workflows
- Implemented an **admin panel** for managing products, inventory, and customer orders efficiently.
- Ensured **secure customer and admin registration and login** using Laravel authentication.
- Designed and structured a relational database schema supporting books, categories, order tracking, and inventory management using **MySQL**.
- Created a responsive user interface and storefront experience using **Blade, Tailwind CSS, and reusable components**, optimized for both desktop and mobile.
- Focused on **scalability and maintainable code** to support real customers and growing inventory.

Tools used: Laravel, MySQL, PHP, JavaScript

Bookstore Management System (E-commerce Web Application)   *2024*

Developed a full-featured online bookstore application to manage books, customers, and orders.

- Built a **book catalog, shopping cart, and checkout system** to handle end-to-end transactions.
- Implemented **user authentication, role-based access control**, and CRUD operations for books and orders.
- Designed a **responsive interface** using Bootstrap for desktop and mobile users.
- Managed database structure and queries with **MySQL**, ensuring data integrity and efficiency.

Tools used: Laravel, MySQL, PHP, Bootstrap

BrickInvest (Real Estate Web Application)   *2024-2025*

Developed a full-stack platform for real estate listings, investment simulation, and property management.

- Integrated an **AI-based price prediction and property recommendation system** to enhance user decision-making.
- Implemented **user authentication, role-based access control**, and CRUD operations for properties.
- Connected AI components to the application via a **Flask API** for real-time predictions and insights.
- Implemented **payment integration** using Swipe for seamless transactions.
- Designed a **responsive and user-friendly interface** with Tailwind CSS for web and mobile users.

Tools used: React.js, ASP.NET Core, SQL Server, Python (AI features), Tailwind CSS

Languages

- **English** — Fluent

- **Arabic** — Native Speaker