

# M. MAHDI SABRY

## Software Engineer – Web Applications

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## PROFILE

**Passionate web application developer** who thrives on transforming complex challenges into elegant, user-friendly solutions. With strong expertise in **JavaScript, C#, and Java**. When I hit a roadblock, I see it as a puzzle to solve—adapting, learning, and iterating until it clicks. Currently expanding my horizons into AI and IoT, I'm excited to blend these cutting-edge fields with my love for code. Let's build something that doesn't just *work*, but leaves a mark.

## APPLIED TECHNOLOGIES & TOOLS SUMMARY

**Programming:** C#, Java, JavaScript

**Web Development:** ASP .NET Core, ReactJs, ExpressJs, NodeJS

**Databases:** MySQL, SSMS, MongoDB

**Tools:** Git, Jira, Clerk.

**IDE:** Eclipse, IntelliJ, Visual Studio, VSCode.

## PROFESSIONAL & ACADEMIC EXPERIENCE

### SRILANKAN AIRLINES

*Katunayake and Colombo*

#### Software Engineer Intern

*Dec 2024-Present*

- Developed and maintained web applications using **ASP.NET** and **ADO.NET**, leveraging **SQL Server Management Studio (SSMS)** for database management and optimization.
- Designed user interfaces and prototypes using **Figma**, ensuring seamless user experiences and alignment with business requirements.
- Implemented **MVC (Model-View-Controller)** and **N-Tier Architecture (Layered Architecture)** to build scalable and maintainable software solutions.
- Collaborated with senior developers to troubleshoot, debug, and enhance legacy systems built on **.NET Framework 4.5.2**, improving system performance and reliability.
- Gained hands-on experience in full-stack development, from backend logic to frontend design, while working in a collaborative team environment.

**Skills gained:** .Net Core, .Net Framework, SSMS, Layered architecture, Time management, Figma

### Independent Blogging Web Application

#### Personal Project | Mar 2024 – Sep 2025

- Developed a full-stack blogging platform using the **MERN stack** (MongoDB, Express.js, React, Node.js) for scalable and efficient web application development.
- Implemented secure and seamless user authentication using **Clerk**, ensuring robust user management and session handling.
- Designed a modern, responsive UI with a focus on aesthetics and usability, leveraging **Tailwind CSS** for streamlined styling.
- Built a rich text editor using **React Quill** for blog creation and editing, enabling users to write and format posts with ease and flexibility.
- Optimized database architecture with **MongoDB** for flexible and scalable data storage, ensuring efficient handling of blog posts, user data, and comments.
- Currently upgrading** the platform to include **AI-powered features** (e.g., OpenAI API) for enhanced functionality, such as automated content suggestions and AI-generated blog post summaries.
- Enhancing deployment** with performance-focused practices, including caching and lazy loading, to ensure fast load times and a smooth user experience.

- Project Details:** [GitHub Repository](#) | [Demo](#)

**Skills gained:** MERN stack, Clerk Authentication, TanstackQuery, React Quill

## **Software Development Group Project Coursework – 70%**

**IIT, Sri Lanka**

*Team Leader / Sep 2023 – Mar 2024*

- Led a team to design, develop, and deploy a full-stack web application using the **MERN stack (MongoDB, Express.js, React.js, Node.js)**.
- Successfully executed the project idea, achieving a **first-class grade** for the final deliverable.
- Implemented **CI/CD pipelines** using **Jenkins** to automate testing and deployment processes, ensuring efficient and error-free releases.
- Deployed the application on **Netlify**, ensuring availability and scalability for end-users.
- Collaborated with team members to divide tasks, set deadlines, and ensure timely delivery of project milestones.
- Conducted code reviews and provided technical guidance to team members, ensuring adherence to best practices and high-quality code.
- **Project Details:** [GitHub Repository](#) | [Demo](#)  
**Skills gained:** MERN stack, Leadership, Teamwork

## **Java OOP Project with GUI Coursework – 78%**

**IIT, Sri Lanka**

*University Coursework / Oct 2023 – Jan 2024*

- Developed an **object-oriented e-commerce application** in Java, implementing core OOP principles (encapsulation, inheritance, polymorphism) to model classes like User, Product, and ShoppingCart for structured inventory and user management.
- **Architected a clean package structure**, separating the GUI (user-facing frontend) and ShopManager (backend logic) into distinct packages to decouple UI from business operations, enhancing code maintainability.
- Stored persistent data (user profiles, product details, orders) in **serialized text files** using Java's Serializable interface, enabling efficient data retrieval and storage without external databases.
- Conducted **unit testing with JUnit** to validate critical functionalities
- **Project Details:** [GitHub Repository](#)  
**Skills gained:** Object Oriented Programming, Java Swing

## **Java REST API Coursework – 85%**

**IIT, Sri Lanka**

*University Coursework / Jan 2024 – May 2024*

- Developed a **RESTful healthcare API** using **JAX-RS** and **Apache Tomcat**, enabling endpoints for doctor appointments, patient registration, and appointment scheduling with Java OOP principles.
- Designed a **layered architecture** with resource classes (e.g., PatientResource, AppointmentResource), service logic, and data models, leveraging JAX-RS annotations (@GET, @POST) for HTTP operations.
- **Tested CRUD operations** (GET, POST, PUT, DELETE) using **Postman** to validate end-to-end API functionality and reliability.
- **Project Details:** [GitHub Repository](#)  
**Skills gained:** Java Rest API, Jax-RS, Postman Testing, Maven

## **EDUCATION**

### **INFORMATICS INSTITUTE OF TECHNOLOGY (IIT)**

**Colombo, SL**

*Affiliated with the University of Westminster, UK*

**BSc (Hons) Computer Science**

**2024-2026**

**GPA:** 3.42/4.00 (current, end of 3rd year)

**Relevant Modules:** Mathematics, Software Development (Java, Python), Object Oriented Programming (Java), Client Server Architecture (Java) Database Systems, Web Development.

**Optional Modules:** Robotic Principles (MATLAB, Simulink), Machine Learning and Datamining (R).

## ADDITIONAL INFORMATION

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- **Project Management:** Agile Methodology, Scrum, Resource Planning, Jira, ClickUp
- **Other Technical Skills:** Python, R, PHP, Linux, AWS, AI/ML
- **Other Soft Skills:** Adaptability, Problem Solving, Critical Thinking, Decision-Making
- **Certifications:** [Java Masterclass Certificate](#) (Udemy), [Software Engineer Intern Certificate](#) (HackerRank).  
[Introduction to Artificial Intelligence \(IBM\)](#).
- **Hobbies and Interests:** Chess, Robotics programming.
- **Self-Learning Initiatives:** IOT, C for Arduino, Raspberry Pi.
- **Other Links:** [Portfolio](#), [GitHub](#), [Microsoft](#), [HackerRank](#).

## REFERENCES

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