

MOHAMMED EAJASS YAHYA

Software Engineer | Full Stack Developer

Phone: [\(+94\) 77 451 4971](tel:+94774514971) | Email: yahyame2005@gmail.com | Location: Colombo, Sri Lanka

[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

PROFESSIONAL PROFILE

Full Stack Software Engineer with hands-on experience building responsive web applications, RESTful APIs, CRUD workflows, and scalable database systems. Strong in React/Next.js, Node.js/Express, Python, FastAPI/Flask, Java, MongoDB, and MySQL, with practical AI/ML integration experience using scikit-learn and pandas. Experienced in connecting frontend, backend, data, and machine learning services into maintainable software products using Git/GitHub workflows, API documentation, testing tools, and agile collaboration.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML, CSS

Frontend: React.js, Next.js, Tailwind CSS, Bootstrap, responsive UI development

Backend: Node.js, Express.js, FastAPI, Flask, RESTful APIs, CRUD architecture, request validation

Databases: MongoDB, MySQL, schema planning, data modelling, transaction records, data management

AI/ML & Data: scikit-learn, pandas, data preprocessing, feature engineering, model evaluation, API based model integration

Tools & Testing: Git, GitHub, Postman, Swagger/OpenAPI, JUnit, NetBeans, IntelliJ IDEA, VS Code, PyCharm

EDUCATION

BSc (Hons) Software Engineering - Second Class Honours, Upper Division (2:1) | Completed May 2026

Cardiff Metropolitan University, partnered with ICBT Sri Lanka

Higher Diploma in Computing and Software Engineering | May 2023 - Dec 2024

Cardiff Metropolitan University, partnered with ICBT Sri Lanka

SELECTED PROJECTS

WellSync - AI Powered Student Wellness & Academic Performance Platform | *Node.js, Express.js, Next.js, TypeScript, Python, MongoDB*

Repository: [GitHub](#)

- Developed predictive AI models achieving 85%+ accuracy to forecast wellness scores, stress levels, and academic risk indicators for proactive student support.
- Built automated weekly wellness reports with personalized evidence-based recommendations, responsive email templates, and PDF report attachments.
- Designed ensemble ML workflows using Random Forest, Gradient Boosting, Stacking Regressors, hyperparameter tuning, and 10-fold cross-validation.
- Integrated RESTful APIs, MongoDB data handling, and Python ML services into a scalable full stack architecture.

Real Estate Price Prediction Platform | *React.js, Node.js, MongoDB, Python, Machine Learning*

Repository: [GitHub](#)

- Implemented ensemble machine learning models to generate instant property price estimates and support data driven valuation workflows.
- Built a React interface with filtering, search, real time prediction tracking, and interactive visualizations for property analysis.
- Developed an admin control panel with full CRUD functionality to manage users, properties, and prediction records efficiently.
- Connected React.js, Node.js, MongoDB, and Python ML services into a deployment ready full stack solution.

SELECTED PROJECTS CONTINUED

Pahanaedu Bill Management System | *Java, JSP, Servlets, JDBC, MySQL, Bootstrap, Chart.js*

Repository: [GitHub](#)

- Developed a bill management system with CRUD functionality for bills, items, and customers to streamline invoicing operations.
- Created an interactive dashboard with real time revenue charts, transaction tracking, bill status analytics, and business performance insights.
- Implemented inventory management, percentage based discounts, bulk operations, and audit trail tracking to improve operational efficiency.
- Engineered a reliable Java backend using Servlets, JDBC, and MySQL data integrity practices for consistent system performance.

Futsal Reservation Website | *HTML, CSS, JavaScript, PHP, MySQL*

Repository: [GitHub](#)

- Created a real time futsal court booking system with location, date, and time filters, instant confirmations, and timely notifications.
- Implemented secure user authentication with encrypted passwords, account management, booking history, and payment management features.
- Integrated payment workflows with encrypted transaction handling, multiple payment methods, and refund or cancellation options.
- Built a responsive PHP/MySQL reservation platform with scalable database backed architecture for a smooth user experience.

CORE COMPETENCIES

API Development: RESTful API design, endpoint integration, request validation, and backend service structuring

Database Management: Schema planning, CRUD workflows, reporting data, transaction records, and application data consistency

AI/ML Integration: Model training workflow support, prediction APIs, model evaluation, and feature engineering for real-world use cases

Full Stack Delivery: Frontend UI implementation, backend logic, database connectivity, and deployment focused application structure

SOFT SKILLS

- **Problem Solving:** Identifies technical challenges, analyzes root causes, and delivers practical solutions with strategic thinking.
- **Team Collaboration:** Works effectively with cross functional teams to improve delivery quality and overall project performance.
- **Communication:** Communicates with tech leads and product owners to gather requirements, provide updates, and apply feedback.
- **Conflict Resolution:** Supports productive technical discussions and contributes to stronger team dynamics during project challenges.

ADDITIONAL STRENGTHS

Strong Git/GitHub workflow experience, structured documentation habits, API testing with Postman and Swagger/OpenAPI, responsive design awareness, and ability to connect frontend, backend, database, and AI/ML components into complete software solutions.