

MOHAMMED EAJASS YAHYA

SOFTWARE ENGINEER | FULL STACK DEVELOPER

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PROFESSIONAL SUMMARY

Full Stack Software Engineer and current Trainee Software Engineer with hands-on experience developing responsive web applications, RESTful APIs, CRUD systems, database-driven platforms, and machine-learning-enabled solutions. Proficient in React.js, Next.js, Node.js, Express.js, Python, FastAPI, Flask, Java, MongoDB, and MySQL. Skilled in connecting frontend, backend, database, and predictive-model services into maintainable products supported by Git/GitHub workflows, API testing, technical documentation, debugging, and collaborative delivery.

PROFESSIONAL EXPERIENCE

Trainee Software Engineer

February 2026 – September 2026

SCAF Software Development

- Contribute to the software development lifecycle for web applications by translating requirements into maintainable frontend, backend, and database features.
- Develop and refine responsive user interfaces and reusable components, integrating them with RESTful services and application data workflows.
- Assist with API endpoints, CRUD operations, request validation, error handling, and database access to support reliable application behaviour.
- Test APIs and end-to-end workflows using Postman and browser development tools; investigate defects and implement practical fixes with the development team.
- Use Git and GitHub for version control, feature branching, structured commits, code collaboration, and change management.
- Participate in requirements discussions, documentation, progress updates, peer feedback, and continuous improvement activities within a collaborative engineering environment.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, PHP, HTML5, CSS3

Frontend Development: React.js, Next.js, Tailwind CSS, Bootstrap, JSP, responsive web design, component-based development

Backend and APIs: Node.js, Express.js, FastAPI, Flask, Java Servlets, JDBC, RESTful APIs, CRUD architecture, request validation

Databases: MongoDB, MySQL, schema planning, data modelling, query development, transaction records, data integrity

AI, ML and Data: scikit-learn, pandas, preprocessing, feature engineering, ensemble learning, hyperparameter tuning, model evaluation, prediction APIs

Testing and Documentation: Postman, Swagger/OpenAPI, JUnit, API testing, debugging, endpoint documentation

Development Tools: Git, GitHub, Visual Studio Code, IntelliJ IDEA, PyCharm, NetBeans

Engineering Practices: Object-oriented programming, MVC architecture, Agile collaboration, version control, maintainable code, responsive design

EDUCATION

BSc (Hons) Software Engineering

Completed May 2026

Cardiff Metropolitan University, in partnership with ICBT Sri Lanka | **Second Class Honours, Upper Division (2:1)**

Higher Diploma in Computing and Software Engineering

May 2023 - December 2024

Cardiff Metropolitan University, in partnership with ICBT Sri Lanka

SELECTED PROJECTS

WellSync - AI-Powered Student Wellness and Academic Performance Platform

Technologies: Next.js, TypeScript, Node.js, Express.js, Python, MongoDB, scikit-learn

Repository: github.com/YahyaEajass05/WellSync

- Developed a full-stack platform for monitoring student wellness, stress indicators, and academic-performance risk through connected web, API, database, and machine-learning services.
- Built predictive models that achieved more than 85% evaluation accuracy across selected wellness, stress, and academic-risk prediction tasks.
- Designed ensemble workflows using Random Forest, Gradient Boosting, Stacking Regressors, hyperparameter tuning, and 10-fold cross-validation.
- Automated weekly wellness reports with personalised, evidence-based recommendations, responsive email templates, and PDF attachments.
- Integrated RESTful APIs, MongoDB data handling, and Python ML services within a scalable, maintainable full-stack architecture.

SELECTED PROJECTS - CONTINUED

Real Estate Price Prediction Platform

Technologies: *React.js, Node.js, Express.js, MongoDB, Python, Machine Learning*

Repository: github.com/YahyaEajass05/Flat_Price_Prediction

- Developed an end-to-end property valuation platform that generates instant price estimates using ensemble machine-learning models.
- Implemented data preprocessing, feature engineering, model training, evaluation, and prediction workflows to support data-driven valuation.
- Built a responsive React.js interface with property search, filtering, prediction tracking, and interactive visualisations.
- Created an administrative dashboard with CRUD functionality for managing users, property listings, and prediction records.
- Connected the React frontend, Node.js services, MongoDB storage, and Python prediction components in a deployment-focused architecture.
- Structured user, property, and prediction records to support traceability, reporting, and future feature expansion.

Pahanaedu Bill Management System

Technologies: *Java, JSP, Servlets, JDBC, MySQL, Bootstrap, Chart.js*

Repository: github.com/YahyaEajass05/Pahanaedu_Book

- Developed a Java-based billing platform for managing customers, inventory items, invoices, payments, and transaction records.
- Implemented full CRUD workflows for bills, products, customer accounts, and supporting business data using Servlets, JDBC, and MySQL.
- Created an interactive dashboard with revenue charts, transaction tracking, bill-status analytics, and business-performance insights.
- Added inventory management, percentage-based discounts, bulk operations, and audit-trail tracking to improve operational control.
- Applied structured validation and relational data-integrity practices to support consistent and reliable system behaviour.
- Organised application flow across JSP views, Servlets, JDBC, and MySQL to separate presentation, request handling, and data access.

Futsal Reservation Website

Technologies: *HTML5, CSS3, JavaScript, PHP, MySQL*

Repository: github.com/YahyaEajass05/GOAL7

- Built a responsive futsal-court reservation platform with location, date, and time filters, availability checks, booking confirmation, and reservation history.
- Implemented secure registration and authentication workflows with encrypted password storage and user-account management.
- Designed a MySQL-backed application structure for users, court availability, reservations, payments, and related operational records.
- Integrated frontend interfaces, PHP business logic, and database operations into a complete end-to-end booking experience.
- Implemented confirmation and notification workflows to keep users informed about booking activity and reservation changes.

SOFTWARE ENGINEERING CAPABILITIES

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

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

AI and ML Integration: Model-training workflows, prediction APIs, feature engineering, evaluation, and real-world model integration

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

CORE COMPETENCIES

Full-stack web development | RESTful API design and integration | CRUD architecture | Database schema design and data management | Machine-learning model integration | Frontend-backend connectivity | Software testing and debugging | Git/GitHub workflows | API documentation | Requirements analysis | Responsive UI development | Technical problem-solving

PROFESSIONAL STRENGTHS

- **Problem Solving** - Analyses technical issues, identifies root causes, and develops practical, maintainable solutions.
 - **Collaboration** - Works effectively with developers, technical leads, and project stakeholders to support quality delivery.
 - **Communication** - Shares requirements, progress, risks, and proposed solutions clearly with technical and non-technical team members.
 - **Adaptability** - Learns new tools and frameworks quickly while contributing across frontend, backend, database, and machine-learning tasks.
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