

# Muhammed Abdullah

Software Engineer | Colombo, Sri Lanka

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## SUMMARY

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Full Stack Software Developer with practical experience in building and deploying web applications. Skilled in both backend and frontend development, including RESTful APIs, database design, and responsive interfaces. Experienced in multiple technologies such as Laravel (PHP), Node.js, Express, and React. Strong problem-solving abilities and a track record of delivering production-ready solutions. Looking to contribute technical expertise and drive results in a collaborative software engineering environment.

## WORK EXPERIENCE

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### Saberion (PVT) LTD, Colombo, Sri Lanka

May 2025 – Mar 2026

*Software Engineer Intern (on-site)*

- Developed and maintained production-ready, full-stack web applications across finance, e-commerce, and education domains, adhering to Agile delivery practices.
- Architected and built RESTful APIs with robust authentication, authorization, and data-validation layers, strengthening application security and reliability.
- Managed relational databases (MySQL) including schema design, migrations, query optimization, and performance tuning to meet scalability requirements.
- Operated server deployments, managed version control workflows in Bitbucket, and contributed to CI/CD pipeline improvements to enable frequent, low-risk releases.
- Ensured compatibility and responsive design conformity across browsers and devices, fulfilling accessibility and Non-Functional Requirements.

### DotTech Softwares (PVT) LTD, Sri Lanka

Sep 2024 – Feb 2025

*Software Engineer Intern (Remote)*

- Designed and developed scalable applications on the MERN stack (MongoDB, Express, React, Node.js), supporting the full application lifecycle from design to deployment.
- Built secure, high-quality RESTful APIs using Node.js and Express, implementing JWT authentication, role-based access control (RBAC), and Zod data validation.
- Leveraged Redux Toolkit for global state management, enabling predictable data flow and consistent UI updates across complex React front-ends.
- Automated functional tests and integrated third-party services to extend application functionality and uncover issues early in the development cycle.
- Deployed and monitored applications on cloud environments (Vercel/AWS), actively tracking performance indicators and resolving issues to maintain high availability.
- Collaborated in a fully remote, cross-functional Agile team, contributing to sprint planning, feature delivery, and continuous improvement initiatives.

### Freelance Web Developer

*Self-Employed*

- Designed and delivered custom, cloud-deployed web applications for clients across multiple business domains, translating requirements into scalable technical solutions.
- Translated client requirements into technical solutions, including custom features, workflows, and reporting capabilities.
- Managed end-to-end project lifecycle including requirements gathering, architecture, development, testing, deployment, and client handoff.
- Collaborated directly with clients to gather requirements, provide updates, and deliver solutions within deadlines.

## EDUCATION

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Cardiff Metropolitan University, UK

2025 - 2026

*BSC (HONS) Software Engineering*

Sri Lanka Institute of Advanced Technological Education, Kegalle, Sri Lanka

2022 - 2025

*Higher National Diploma in Information Technology (HNDIT)*

## SKILLS

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**Programming Languages:** Java, JavaScript, TypeScript, PHP, HTML, CSS

**Front-End:** React.js, Next.js, Tailwind CSS, Redux, Bootstrap, SCSS

**Back-End & Frameworks:** Node.js, Express.js, Laravel

**Databases:** PostgreSQL, MySQL, MongoDB, Firebase, Sequelize, Eloquent ORM

**Cloud & DevOps:** Vercel, GitHub Actions (CI/CD), Git, GitHub, Putty, FileZilla, Bitbucket, Docker, AWS

**Testing & QA:** Functional Testing, Integration Testing, Root Cause Analysis, Zod Validation, REST API Testing

**Methodologies & Concepts:** OOP, MVC, RESTful APIs, Responsive Design, Agile (Scrum)

**Languages:** Proficient in English, Tamil, Sinhala

## PROJECTS

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### Laravel Auto Seeder Package (Open-Source)

*Author & Maintainer*

- Developed a Laravel package that automatically generates realistic fake data and seeders by analyzing models, migrations, and relationships.
- Implements schema analysis, type-aware data generation, uniqueness guards, and constraint validation for production-grade test datasets.
- Designed for MySQL, PostgreSQL, SQLite, and SQL Server support, improving developer efficiency in testing.
- Published and maintained on Packagist: <https://packagist.org/packages/dedsec/laravel-autoseeder>

### AI-Driven Personal Finance Management System (PWA)

*Personal Project*

- Built a full-stack, cloud-deployed Progressive Web App managing accounts, transactions, budgets, and AI-driven features (auto-categorization, receipt scanning, anomaly detection, financial chat assistant).
- Developed secure REST APIs with session-based auth, RBAC, CSRF protection, and Zod validation; designed a normalized PostgreSQL schema for scalability and performance.
- Baked observability into the application with structured logging and performance monitoring; deployed on Vercel with Neon PostgreSQL for high availability.
- Tech: Node.js, Express.js, React, PostgreSQL, Sequelize, Tailwind CSS
- Live: <https://pfm-hub.vercel.app>

### Flexxy-Modern E-commerce Platform

*Personal Project*

- Architected and built a production-grade, full-stack e-commerce platform with secure authentication (JWT + RSA encryption), product management, order tracking, and PayPal payment integration.
- Designed modular RESTful APIs with Express.js, RBAC, and Zod validation; implemented automated data integrity checks and third-party integrations (Cloudinary, Nodemailer).
- Engineered a component-based React/Redux front-end with Tailwind CSS and Framer Motion; deployed on Vercel with continuous deployment via GitHub.
- Tech: React, Redux Toolkit, Node.js, Express.js, MongoDB, JWT, RSA, Vite
- Deployed the project on Vercel for production access: <https://flexxy-cloathing-store-app.vercel.app>

## Awards and Certificates

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**Open-Learning-Platform (University of Moratuwa)**

Web Design for Beginners E-Certificate

2021

## Referees

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Provided Upon Request