MOHAMED ASHFAQ

Full-Stack Developer | Computer Science Undergraduate
Colombo, Sri Lanka | ashfaq.cs2025@gmail.com
ashfaq.website | github.com/ashfaq-ui | linkedin.com/in/ashfaq-mohamed

PROFESSIONAL SUMMARY

Computer Science undergraduate and Software Engineering Intern with experience developing, deploying and maintaining full-stack applications across 5+ client projects. Skilled in Next.js, Spring Boot, NestJS, Express.js, Go and relational databases, with practical experience in multi-tenant architecture, database concurrency, API integrations, automated testing, VPS configuration and CI/CD.

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Go, Python, C++, HTML5, CSS3

Frontend: Next.js, React, Tailwind CSS, SSR, SSG, React Hooks, State Management, Technical SEO

Backend: Spring Boot, NestJS, Express.js, Node.js, REST APIs, Microservices, WebSockets, Rate Limiting, Background Jobs

Databases & ORM: PostgreSQL, MySQL, PostGIS, Supabase, Prisma, TypeORM, Hibernate/JPA, Flyway

DevOps & Infrastructure: Docker, Docker Compose, GitHub Actions, CI/CD, VPS, Nginx, SSH, cPanel, SSL/TLS, Vercel, Railway

Security: JWT, OAuth 2.0, Firebase Authentication, Better Auth, RBAC, Sessions, CORS, Webhook Verification

Testing & Tools: JUnit, Playwright, Postman, Swagger, Git, GitHub, Unit, Integration, E2E and Load Testing

Engineering: OOP, DSA, Multi-tenancy, Transactions, Concurrency, Indexing, Normalization, Agile/Scrum

AI, IoT & Mobile: TensorFlow, Scikit-learn, Pandas, NumPy, ESP32, Flutter

PROFESSIONAL EXPERIENCE

Software Engineering Intern — Gamu Technologies | Jun 2026 – Present

- Contributed to 5+ client projects using Next.js, Express.js, NestJS, TypeScript and SQL databases.
- Independently configured VPS environments and deployed applications using Nginx, SSH, SSL/TLS and shared hosting.
- Integrated payment gateways and third-party APIs into client applications.
- Maintained production applications, resolved defects and troubleshot infrastructure and deployment issues.
- Implemented responsive interfaces, technical SEO and frontend performance improvements; collaborated on version control, code reviews and delivery.

SELECTED PROJECTS

Nexlume CRM — Multi-Tenant Sales CRM | Oct–Nov 2026 · Individual

Next.js, TypeScript, NestJS, PostgreSQL, Prisma, Stripe, Docker, GitHub Actions | nexlume.ashfaq.website

- Built isolated organizational workspaces, four permission levels, drag-and-drop deal pipelines and sales analytics.
- Implemented transactional lead conversion with concurrency protection against duplicate deals.
- Integrated Stripe subscription billing and automated tests and builds with GitHub Actions.

ParkIQ — Smart Parking Intelligence Platform | Nov 2026 · Individual

Next.js, TypeScript, Go, PostgreSQL/PostGIS, WebSockets, Docker, Playwright | parkiq.ashfaq.website

- Built geospatial parking search, interactive layouts, QR check-in/out and live operator dashboards.
- Used database constraints to prevent double-booking: exactly one of 100 simultaneous requests for the same bay and time slot succeeded in local testing.

SELECTED PROJECTS (CONTINUED)

iSwap — Full-Stack iPhone Resale Platform | Oct–Nov 2026 · Individual

Next.js, TypeScript, Java, Spring Boot, MySQL, Flyway, Stripe, Firebase Auth, Docker | i-swap.ashfaq.website

- Built an e-commerce storefront with device comparisons, inspection reports, checkout and order management.
- Integrated Stripe webhook verification, bank transfer receipt uploads and staff payment approval.
- Developed role-based staff and resale approval workflows with transactional inventory updates to prevent duplicate sales.

Zentra HCM — Human Capital Management Platform | Nov 2026 · Individual

Next.js, TypeScript, Java, Spring Boot, MySQL, Flyway, Docker, GitHub Actions | zentra.ashfaq.website

- Built a multi-organization HR platform for employee records, attendance, leave, recruitment and onboarding.
- Implemented organization-scoped access, audit logs, CSV import/export, Sri Lankan payroll and PDF payslips.
- Configured GitHub Actions and MySQL-backed API integration tests.

Airea — Smart Respiratory Monitoring Platform | Sep 2025–Apr 2026 · Team

C++, ESP32, Flutter, Spring Boot, Supabase, TensorFlow Lite Micro, FCM | airea.lk

- Collaborated in a six-member team on an IoT respiratory platform spanning embedded hardware, REST APIs and mobile applications.
- Implemented on-device cough and fall detection using TensorFlow Lite Micro on ESP32-S3.
- Designed architecture connecting firmware, backend services, cloud storage and real-time mobile notifications.

MediBook — Clinic Appointment Management System | Apr–Nov 2026 · Individual

Next.js, JavaScript, Node.js, Express.js, PostgreSQL, Docker, GitHub Actions | medibook.ashfaq.website

- Built patient, doctor and administrator dashboards with scheduling and consultation management.
- Used PostgreSQL transaction locks to prevent concurrent double-booking; automated email reminders with retries.
- Migrated the backend from Spring Boot to Express.js while preserving appointment data; added integration tests.

EDUCATION

BSc (Hons) Computer Science | Sep 2024 – Present (Expected 2028)

Informatics Institute of Technology, affiliated with the University of Westminster

Currently pursuing Level 6 | Level 5 average: 80% | Level 4 average: 76.8%

ACHIEVEMENTS & ACTIVITIES

- Second Runner-Up — IEEE CodeRally 7.0 (2026), Intermediate Category, Team Cyber Knights.
- Hackathon finalist: CodeRally 6.0 and IEEEXtreme 19.0; IEEE Student Member (2024–Present).
- Competition participant: Hult Prize and SLIIT MATHFEST 2023.

CERTIFICATIONS – LINKEDIN LEARNING

- 2026: Learning Docker
- 2025: TypeScript for JavaScript Developers | React Essential Training
- 2024: Learning Python | Python GUI Development with Tkinter | Critical Thinking and Problem Solving