

# Mohamed Hajith

## Full-Stack Software Developer | Backend & Database Engineering

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Portfolio: hzlabs.studio | GitHub: github.com/HajithMohamed

### PROFESSIONAL SUMMARY

Third-year BICT (Hons) undergraduate at the University of Ruhuna. I build practical web applications, secure REST APIs, and database-driven business systems using React, Next.js, Node.js, and PostgreSQL. Open to software engineering internships, junior development roles, and collaborative full-stack projects.

### EDUCATION

**Bachelor of Information and Communication Technology (Honours) â BICT (Hons)** 2023 â 2027 (Expected)  
Faculty of Technology, University of Ruhuna, Sri Lanka

### TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Java, PHP, SQL, Python fundamentals  
**Frontend:** React, Next.js, Redux Toolkit, Tailwind CSS, HTML5, CSS3  
**Backend:** Node.js, Express.js, NestJS, Spring Boot, REST APIs  
**Databases:** PostgreSQL, MySQL, MongoDB, Prisma ORM, PL/pgSQL  
**Testing & DevOps:** Playwright, Vitest, Git, GitHub Actions, Docker, Docker Compose, Postman  
**Security & Architecture:** JWT, Role-Based Access Control (RBAC), Socket.IO, Decoupled MVC / REST  
**Currently Exploring:** Flutter / Dart, Applied AI in practical software systems, Cloud fundamentals (AWS)

### FEATURED ENGINEERING PROJECTS

- Saga Elite â Full-Stack E-Commerce Platform** [React](#), [Redux](#), [Node.js](#), [Express](#), [MongoDB](#), [Socket.IO](#), [Playwright](#), [GitHub Actions](#)
  - â Collaborative e-commerce application developed by a 4-member team. Led API architecture and admin workflows.
  - â Implemented JWT authentication, role-based controls, real-time Socket.IO notifications, and OCR receipt processing.
  - â Established automated end-to-end regression test suites with Playwright integrated into GitHub Actions CI/CD.
  - â Repository: [github.com/Hz-Labs-studio/Saga-Elite-Web-project](#) | Live: [saga-elite.shop](#)
- BenchBook â Laboratory Resource Reservation System** [Next.js](#), [TypeScript](#), [PostgreSQL](#), [Prisma](#), [Vitest](#)
  - â Engineered resource reservation platform managing medical and laboratory equipment availability.
  - â Designed database-enforced booking constraints in PostgreSQL to eliminate conflicting overlapping reservations.
  - â Constructed comprehensive unit and integration test suites using Vitest verifying reservation business logic.
  - â Repository: [github.com/HajithMohamed/Medical-Lab-Resource-Reservation-System](#)
- BloodBridge â Advanced Database Management System (ADBMS Prototype)** [TypeScript](#), [PostgreSQL](#), [React](#), [Node.js](#), [Docker](#), [GitHub Actions](#)
  - â Collaborative academic prototype for blood donation and inventory distribution management.
  - â Contributed pre-handoff architecture, PL/pgSQL transaction procedures, and transfer integrity constraints (PR #7).
  - â Authored database contract tests and integrated automated verification into GitHub Actions CI pipeline.
  - â Repository: [github.com/akalanka001/-BloodBridge--ADBMS](#) | Academic demonstration project
- HZ Labs â Portfolio and Content Management Platform** [Next.js](#), [NestJS](#), [TypeScript](#), [Prisma](#), [PostgreSQL](#)
  - â Architected full-stack portfolio and CMS with authenticated admin panel and real-time GitHub telemetry sync.
  - â Engineered type-safe REST APIs with NestJS and Prisma ORM for content updates and contact intake workflows.
  - â Repository: [github.com/HajithMohamed/my\\_portfoli\\_website](#) | Live: [hzlabs.studio](#)
- Shoe Bank â Footwear Business Management System** [PHP](#), [MySQL](#), [Tailwind CSS](#), [Docker](#)
  - â Engineered operational business platform managing inventory, invoices, customer credit, and cheque registers.
  - â Dockerized development environment ensuring consistent containerized deployment and reproducible database states.
  - â Repository: [github.com/HajithMohamed/Footwear\\_Business\\_Management\\_System](#)

### CERTIFICATIONS & CONTINUOUS LEARNING

**The Complete Full-Stack Web Development Bootcamp (62 Hours) â Udemy (Dr. Angela Yu)** [Certificate ID: 66666666-6666-6666-6666-666666666666](#)