# Hashala Gayendra

**Undergraduate IT Student | Full-Stack & AI Developer**

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Portfolio

## PROFILE SUMMARY

Motivated and self-driven IT undergraduate with a strong interest in software engineering, full-stack web development, and problem-solving. Experienced in building production-ready applications using modern JavaScript frameworks, with hands-on experience in React, Next.js, and NestJS, including AI-integrated systems such as a RAG-based chatbot and intelligent web platforms. Eager to apply object-oriented programming, data structures, and cloud-based technologies in real-world environments while continuously enhancing technical and professional skills.

## EDUCATION

### Bachelor of Information and Communication Technology (Hons)
- Currently a 3rd Year undergraduate specializing in Software Technology
- Completed coursework in Software Engineering, Database Systems, Web Development, Data structures and algorithms,Web Application Development, Software Deployment & Evolution , Object-Oriented Programming (OOP) and Project Management

### G.C.E. Advanced Level Examination 2021
- Kg/Swarnajayanthi M.V– Engineering Technology
- District Rank: 08

## TECHNICAL SKILLS

- **Languages:** JavaScript |TypeScript | Python | SQL | HTML5 | CSS3
- **Frontend**: React.js | Next.js | React Native | Redux| Tailwind CSS | shadcn/ui | Responsive Design | Progressive Web Apps (PWA)
- **Backend**: Node.js | NestJS | Express.js | REST APIs | GraphQL | NextAuth | Microservices Architecture
- **AI / LLM**: LangChain | pgvector | Embeddings | RAG
- **Databases**: PostgreSQL | Prisma ORM | MongoDB | Firebase | MySQL
- **DevOps**: Docker | Git | GitHub Actions | Azure Container Apps | CI/CD Pipelines
- **Methodologies :** Agile | Scrum

## PROJECTS

### ThinkBase - RAG Chatbot Platform as a Service | Production | think-base.dev
Next.js | NestJS | LangChain | Prisma | PostgreSQL (pgvector) | Docker | Azure Container Apps | TypeScript
- Architected and deployed **enterprise-grade PaaS platform** enabling developers to build **AI-powered RAG chatbots** with **zero infrastructure setup**, reducing development time by up to **80%**
- Engineered **document processing pipeline** supporting **PDF** formats with **customizable chunking algorithms** (adjustable chunk sizes: 100-2000 tokens, overlap: 0-500 tokens) and **vector embedding generation** using **Gemini AI embeddings** Built web-based configuration interface for system prompts
- Engineered cookie-based client IDs for conversation history and context-aware responses
- Created developer SDK with pre-built chat components published to **npm** for easy integration
- Deployed containerized application using **Docker** and **Azure Container Apps** with automated **CI/CD** pipelines via GitHub Actions
- Designed **API key generation system** for project-specific access control and security

## ThinkBase Mobile Admin App

React Native | Expo | GraphQL

- Real-time system monitoring for documents, embeddings, and active developer usage
- GraphQL-powered analytics queries for fast and efficient data fetching
- Project and API key activity tracking with usage summaries

## Qwizzy AI – Online exam creation, answering, and automated question generation

NextAuth.js | PostgreSQL | Prisma | Tailwind CSS

- Built **exam creation and assignment system** with **manual and AI-powered question generation** (topics/PDFs) creating **papers** with **90% accuracy**
- Created a timed answering interface with navigation and automatic submission.
- Developed marking system with detailed result views and correct/incorrect answer breakdown.
- Added PDF export for papers including all questions and options.
- Built dashboards for created, assigned, and answered papers.

## Citizen Voice – Smart civic complaint reporting system

Next.js, | NextAuth | Prisma | PostgreSQL | Firebase | Cloudinary | Tailwind CSS | Leaflet.js | Gemini AI

- Built modular complaint system with 7 categories, 33 sub-categories, and 14+ reusable components for processing complaints
- Designed 5-stage workflow with Leaflet.js geolocation, Cloudinary uploads, severity selection, and PDF receipts with tracking IDs
- Integrated Gemini AI chatbot (90% accuracy) and Firebase real-time chat for citizen-admin communication
- Created role-based dashboards for admin management and user tracking with 100% mobile responsiveness
- Implemented NextAuth.js authentication with role-based access control securing users

## SOFT SKILLS & ADDITIONAL INFORMATION

- **Skills**: Creative Thinking, Problem-Solving | Teamwork, Adaptability | Communication | Quick Learner.
- **Languages**: English (Fluent) | Sinhala (Native)
- **Availability**: Full-time internship preferred.

## CERTIFICATIONS

- **Learn TypeScript -** Scrimba
- **Learn LangChain.js -** Scrimba
- **Linux Basics Course & Labs -** KodeKloud
- **Getting Started with Docker -** Simplilearn
- **Oracle Cloud Infrastructure AI Foundations :** Oracle

## REFERENCE

**Dr. D. L. Chamara Pramod Liyanage**
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