

Hashala Gayendra

Undergraduate IT Student | Full-Stack & AI Developer

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PROFILE SUMMARY

Undergraduate IT student specializing in full-stack web development with expertise in modern JavaScript frameworks and AI integration. Proven track record of building production-ready applications including a RAG-based chatbot PaaS intelligent exam platform, and civic engagement system. Strong foundation in React, Next.js, NestJS, and cloud deployment with hands-on experience in Docker, Azure, and CI/CD pipelines.

EDUCATION

Bachelor of Information and Communication Technology (Hons)

Reading - University of Sri Jayewardenepura, Sri Lanka

Specialization: Software Technology

G.C.E. Advanced Level Examination 2021

Kg/Swarnajayanthi M.V- Engineering Technology

District Rank: 08 (Results: SFT-A, ICT-B, ET-B)

TECHNICAL SKILLS

- **Frontend:** React.js | Next.js | React Native | JavaScript | TypeScript | 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
- **DevOps:** Docker | Git | GitHub Actions | Azure Container Apps | CI/CD Pipelines

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

CERTIFICATIONS

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