

# Hasath Silva

## Software Engineering Intern

✉ hasath30@gmail.com    ☎ +94 77 069 2127    📍 Katubedda, Sri Lanka

### Profile

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Motivated and detail-oriented Information Technology undergraduate with strong skills in coding, problem-solving, and software development. Experienced in designing, developing, and debugging applications, collaborating in Agile teams, and following industry best practices. Passionate about full-stack development and emerging technologies, eager to apply technical expertise and teamwork to real-world projects while continuously growing as an IT professional.

Required Internship Period: January 2026 – June 2026

### EDUCATION

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**BSc. (Hons) in Information Technology**, *University of Moratuwa* 06/2023 – Present

**G.C.E. Advanced Level Examination – Bio Stream** 2021  
District Rank: 58

### SKILLS

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#### Programming Languages

Java, C, C#, JavaScript

#### Desktop Application Development

JavaFX

#### Version Control

Git

#### Design & Editing Tools

Figma, GIMP, DaVinci Resolve, CapCut

#### Soft Skills

Analytical Thinking, Problem Solving, Project Management, Time Management, Collaboration, Adaptability, Emotional Intelligence (EQ), Critical Thinking, Creativity & Innovation, Resilience

#### Web & Mobile Development

Node.js, React.js, Next.js, Flutter, SpringBootASP.NET, HTML, CSS, Tailwind CSS, Chart.js

#### Database Management

MySQL, MS SQL Server, PostgreSQL, MongoDB, PGAdmin, MongoDB Compass

#### Development Tools

Visual Studio Code, IntelliJ IDEA, CLion, Jupyter Notebook, MySQL Workbench, Arduino IDE, Android Studio, Microsoft Office (Word, PowerPoint)

#### Core Concepts

Software Engineering, Data Structures & Algorithms, Probability & Statistics, Object-Oriented Programming (OOP), Agile Methodologies, UML Design

#### Languages

Sinhala (Native), English (Intermediate)

## PROJECTS

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<b>IAM-AI Powered Nutrition &amp; Lifestyle Intelligence System,</b> <i>React, Next.js, TypeScript, Spring Boot, Java, MongoDB, Tailwind CSS, JWT, RESTful APIs, Gemini AI, Docker (Individual)</i>	10/2024 – 10/2025
Developed an AI-driven health and finance platform featuring nutrition analysis, micronutrient profiling, personalized meal planning, behavioral diary insights, and expense tracking. Contribution: full-stack development, AI integration, secure authentication, and scalable dashboards with intuitive UX. (Role: Full Stack Developer) GitHub repo	
<b>Emergency Incident Intelligence System,</b> <i>React, Next.js, ASP.NET Core, C#, PostgreSQL, Leaflet.js, Entity Framework Core (Group)</i>	07/2025
Designed a real-time geospatial platform for incident reporting, automated geofencing, and emergency response coordination. Contribution: full-stack features and dashboard development for scalable, data-driven operations. (Role: Full Stack Developer) GitHub repo	
<b>Vocal Training &amp; Pitch Analysis System,</b> <i>Flutter, Node.js, MongoDB, Web Audio API (Individual)</i>	07/2025
Created a vocal training application with real-time pitch detection, range exercises, and performance analytics to enhance singing accuracy. Contribution: full-stack development, integrating live audio monitoring and personalized feedback. (Role: Full Stack Developer) GitHub repo	
<b>Vehicle Service Management System,</b> <i>Next.js, Spring Boot, PostgreSQL (Group)</i>	07/2025
Developed an enterprise web app to manage vehicle service appointments, track service progress, and improve customer experience. Contribution: frontend development, real-time bookings, and status updates integration with backend. (Role: Frontend Developer) GitHub repo	
<b>Invoice &amp; Billing System,</b> <i>JavaFX, Scene Builder, MySQL (Individual)</i>	03/2025
Built an offline desktop application for bill management, check payments, and financial reporting to streamline record-keeping. Contribution: full system design and implementation with focus on usability and data efficiency. (Role: Software Developer) GitHub repo	
<b>Level 2 Software Project – Vehicle Tracking System,</b> <i>React, Node.js, Express.js, MySQL (Group)</i>	02/2025
Developed a real-time vehicle tracking system with live location monitoring, historical route analysis, geofencing, and report generation. Contribution: full-stack development, ensuring system performance, fleet optimization, and following Agile practices. (Role: Full Stack Developer) GitHub repo	
<b>Drive Assistance System,</b> <i>ESP32, MPU6050, IR Sensor, Rain &amp; Humidity Sensors (Group)</i>	03/2024
Created a Level-1 embedded system that automates headlights and fog lights based on road curves and weather for improved driver safety. Contribution: hardware and embedded software development for real-time control. (Role: Embedded Systems Developer) GitHub repo	

## CO-CURRICULARS

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Main vocalist of Studio AURA, contributing to music productions and performances.  
Member of FIT Moments at the University of

Moratuwa.

Choir member and vocalist of FIT Tunes at the  
University of Moratuwa.