

# Dilsha Thathsarani

## SOFTWARE ENGINEER

**Kaduwela, Colombo, Sri Lanka | +94 70 242 5560 | [dilsha99t@gmail.com](mailto:dilsha99t@gmail.com)**

 [Dilsha-thathsarani](#)

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## Objective

Motivated and adaptable software engineer with 2 years of experience in full-stack development. Strong expertise in the MERN stack, with a proven ability to integrate emerging technologies such as AI services OpenAI, Claude, GPT-Engineer and modern frameworks Supabase, DENO, ASTRO. Proficient in Supabase, Drizzle ORM, and PostgreSQL. Skilled in product design, architecture research, and collaborative problem-solving. Committed to contributing technical expertise to innovative projects and driving efficient development processes.

## Experience

### Henhouse Studio BV | Intern Software Engineer

Jan 2023 – Jan 2024

- Developed and maintained full-stack applications using MERN stack
- Contributed to UI/UX improvements, ensuring better user experience and responsiveness.
- Gained hands-on experience with API development, authentication, and database management.
- Conducted product design and architecture research, contributing to scalable and efficient solutions.

### Henhouse Studio BV | Associate Software Engineer

Jan 2024 – Jan 2025

- Led the research and development of an MVP using Astro, React, Drizzle ORM, and Supabase, enabling the team to rapidly develop and deploy scalable web applications.
- Optimized database queries with Drizzle ORM and Supabase, leading to a 40% reduction in data retrieval latency and improved efficiency.
- Standardized a cutting-edge tech stack, enabling teams to rapidly prototype and deploy production-ready applications.
- Enhanced cross-team collaboration by documenting the best practices and providing technical guidance on new frameworks.

## Education

### BSc (Hons) Information Technology Specialization in Software Engineering

Jan 2020- Dec 2024

Sri Lanka Institute of Information Technology

## Projects

### MANGOWISE - MOBILE APPLICATION (FINAL YEAR RESEARCH)

[\[Source Code\]](#)

Technologies: Machine Learning, YOLOv8, Roboflow, React Native

- Implemented CNN-based disease detection for accurate mango disease diagnosis.
- Integrated budding prediction and soil analysis to enhance farming accuracy.
- Provided fertilization advice and mango variety identification for better crop management.
- Conducted market analysis to help farmers make informed sales decisions.

## RESEARCH MANAGEMENT SYSTEM - WEB APPLICATION

[\[Source Code\]](#)

Technologies: MongoDB, Express JS, React JS, Node JS, Bootstrap

- Implemented role-based access control for admins, students, supervisors, and panel members.
- Enhanced efficiency in research management by automating administrative tasks and reducing manual errors.

## TICKET RESERVATION - ENTERPRISE APPLICATION

[\[Source Code\]](#)

Technologies: C#, Java, React JS, Android Studio

- Developed a web application for back-office staff and travel agents.
- Implemented role-based user management and traveler profile handling.
- Built a mobile application for travelers to manage reservations and bookings.
- Designed a centralized web service to handle all client requests.

## AQTRO - WEB APPLICATION

[\[Source Code\]](#)

Technologies: Astro, Typescript, Supabase, Drizzle ORM

- Developed features for creating and managing workspaces, organizations, and tasks.
- Implemented role-based access control for streamlined user management.
- Optimized database interactions using Drizzle ORM for efficient data handling.

## Skills & abilities

- **Programming Languages:** Java, Python, C++
- **Web Development:** React JS, Node JS, JavaScript, Astro, HTML, CSS, Tailwind CSS, ShadcnUI
- **Mobile Development:** React Native, Flutter, Android Studio
- **Database:** MYSQL, Mongo DB, PostgreSQL, Supabase, Drizzle ORM
- **Cloud Technologies:** Firebase
- **Version Controls:** GitHub, Git Lab
- **Project Management & Workflow Tools:** Notion, n8n

## Publications

MangoWise: Intelligent Farming Assistance for Budding, Planting, and Disease Prevention    Oct 2023

MangoWise is a smart farming application that integrates AI and agriculture to support mango cultivation. It offers disease diagnosis, fertilization advice, mango variety identification, and market analysis. Using CNN-based disease detection, budding prediction, and soil analysis, MangoWise delivers high-accuracy insights, optimizing farming decisions.

## References

**Diederik Mutsaerts**

CEO

Henhouse Studio BV, Tilburg, Netherlands

Email: [dm@henhouse.studio](mailto:dm@henhouse.studio)

Phone: +31 6 25298522

**Rick Groenen**

Product Manager & Concept Developer

Henhouse Studio BV, Tilburg, Netherlands

Email: [rg@henhouse.studio](mailto:rg@henhouse.studio)

Phone: +31 6 11436748