

# Sahan Dilip Gunathunga

## Computer Science & Engineering Undergraduate

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🐙 github.com/SahanDilip    📄 Portfolio

### Profile

Motivated Computer Science and Engineering undergraduate with a strong interest in solving complex problems through software engineering disciplines. Experienced in full-stack development, Passionate about designing efficient and scalable software solutions. A dedicated learner and collaborative team member and committed to creating high-quality, user-centered solutions that address real-world challenges

### Education

2021 – present	<b>B.Sc. Engineering (Hons)</b> , University of Moratuwa Specialized in Computer Science and Engineering CGPA 3.5 / 4.0
2017 – 2020	<b>GCE Advanced Level   2020</b> , ST. Thomas Boys' College Matara Passed with 3 A's   Z-score – 2.3472   IR - 297

### Professional Experience

2024/08 – Present University of Moratuwa	<b>Undergraduate Teaching Assistant</b> , Department of Computer Science & Engineering <ul style="list-style-type: none"><li>Assisted in managing and evaluating student project submissions, ensuring accurate and fair grading.</li><li>Provided constructive feedback and guidance to students on their projects, helping them improve design, implementation, and overall understanding of visual programming concepts.</li><li>Facilitated student learning by clarifying concepts, answering queries, and offering insights to strengthen their practical programming skills.</li></ul> <b>Key Skills:</b> Visual Programming, Project Evaluation, Feedback & Guidance
2024/12 – 2025/05 Trace Expert City, Colombo 10.	<b>Trainee Software Engineer</b> , CodeGen International (Pvt) Ltd. <ul style="list-style-type: none"><li>Developed an agent-based, LLM-powered system to streamline complex booking workflows and enhance user experience.</li><li>Integrated natural language capabilities for context-aware, multi-turn interactions, improving system intuitiveness and adaptability.</li><li>Collaborated in Agile-Scrum teams, contributing to sprint planning, daily stand-ups, and sprint reviews.</li><li>Applied prompt engineering and context-aware interaction design to real-world intelligent system solutions.</li></ul> <b>Technologies &amp; Skills:</b> LLMs, NLP, Intelligent Systems, Agile Development

### Projects

- S.P.E.A.K: Enhancing Automatic Speech Recognition for Sinhala**
- As part of my university research project, I contributed to creating a large Sinhala–English code-mixed speech dataset featuring diverse accents, dialects, speaking styles, and noisy environments to address low-resource limitations in Sinhala ASR. I also helped develop an advanced ASR system fine-tuned for spontaneous Sinhala speech with code-switch handling, accurate real-time transcription, and enhanced output quality through post-processing and optional speaker diarization.
  - Tools:** Python, Whisper, FastAPI, GCP, React, Git, CTranslate2
- OpenCare Child Orphanage Management Platform - Full Stack Developer**
- Developed OpenCare, a secure web-based platform for child protection authorities to efficiently manage and oversee orphanages. The system ensures data privacy while providing comprehensive tools for orphanage administration, child profile management, case tracking, and adoption workflows. It enables role-based access control, seamless document management, and automated notifications, supporting smooth operations and compliance with child data protection standards.
  - Tech Stack:** React, Node.js, Express, PostgreSQL, Prisma ORM

UniMate Community Events & Lost/Found - Full Stack Developer

- A cross-platform mobile application for campus and community engagement, enabling users to discover and share events and manage lost and found items. It supports real-time updates, media uploads, and secure sessions via Supabase, providing a seamless user experience. Users can browse, create, and interact with events and posts, filter content with full-text search, and navigate locations using integrated maps and directions.
- **Tech Stack:** Expo (React Native), TypeScript, Supabase (Postgres, Auth, Storage, Realtime), React Navigation, react-native-maps

ABC Company Data Usage Indicator Platform

- Developed a Data Usage Indicator Platform that aggregates and processes data from spreadsheets and internal sites, providing visual usage insights for administrators and users. The platform supports secure authentication, role-based access, and integration with Google Sheets and Excel, offering interactive dashboards, KPI-driven charts, and real-time reporting with optimized backend operations.
- **Tech Stack:** Node.js, Express, MySQL, Google Sheets API, React, Vite, Chart.js, MUI/AntD

Extracurricular Activities

2024/03 – Present	<b>Chairperson</b> , Industry Applications Society, IEEE Student Branch University of Moratuwa
2025/07 – Present	<b>Member IT Panel</b> , Leo District 306 D2
2023/06 – 2024/05	<b>Cheif Activity Coordinator</b> , Leo Club Of University of Moratuwa
2022/06 – 2023/05	<b>Activity Coordinator</b> , Leo Club of University of Moratuwa
2022/06 – 2023/05	<b>Project Chairperson</b> , Mahesh Abeywickrama Memorial Debate Competition & Pera Man Thanuma Leo Club of University of Moratuwa
2024/01 – 2024/08	<b>Project Chairperson</b> , MoraUXplore 2.0 IEEE Student Branch University of Moratuwa
2023/09 – 2024/01	<b>Lead SLIOT 2023</b> , Department of Computer Science & Engineering, University of Moratuwa

Skills

• Python	• Java	• JavaScript
• C++	• React	• NextJs
• MySQL	• PostgreSQL	• MongoDB
• GitHub	• Docker	• Langchain

Soft Skills & Interests

• Photography	• Event-Organizing	• Public Speaking
• Leadership	• Communication	

References

Prof. Dulani Meedeniya Professor Department of Computer Science & Engineering University of Moratuwa Sri Lanka Mobile: +94 71 393 5801 Email: <a href="mailto:dulanim@cse.mrt.ac.lk">dulanim@cse.mrt.ac.lk</a>	Dr. Kutila Gunasekera Senior Lecturer Department of Computer Science & Engineering University of Moratuwa Sri Lanka Mobile: +94 77 142 3877 Email: <a href="mailto:kutila@cse.mrt.ac.lk">kutila@cse.mrt.ac.lk</a>
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