Sageeth Himachala

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Dept. of Computer Science and Engineering, University of Moratuwa, Sri Lanka.

OBJECTIVE

Final-year undergraduate with hands-on internship experience. Experienced in frontend performance optimization, backend services, and database-driven systems, with a strong focus on clean code and real-world problem solving. Actively interested in full-stack development, mobile application development, machine learning, DevOps practices, and cloud engineering. Eager to apply my knowledge to real-world projects in a dynamic team.

EXPERIENCE

- **Senzmate [🌐]**   *Dec 2024 - May 2025*
  Intern Software Engineer   Colombo 04, Sri Lanka
  - Contributed to the development of SenzMate and SenzAgro websites using Material UI and Next.js, focusing on performance, SEO, and responsive UI/UX design.
  - Contributed to the development of SenzMate website admin portal (CMS) using React and Redux, implementing features for content management.
  - Implemented the CliniclIQ website, customizing themes and functionality on WordPress.
  - Worked with Node.js for backend services and MongoDB for database management.

- **Busy [🌐]**   *Oct 2025 - Dec 2025*
  Junior Software Engineer   UK (Remote)
  - Contributed to the development of TravelMatch, a social media web application, using Next.js for frontend, Node.js for backend, and PostgreSQL database with Supabase.
  - Implemented like and comment features, handling frontend interactions, backend API logic, and database schema.
  - Developed unit tests for all new features using Jest.
  - Integrated Stripe payment gateway to enable secure transaction.

EDUCATION

- **University of Moratuwa**   *2021 - Present*
  Bsc. Computer Science and Engineering   Katubedda, Sri Lanka
  - GPA: 3.32/4.00

- **H/Vijayaba National School**   *2016 - 2020*
  GCE Advanced Level   Hungama, Sri Lanka
  - Z-score: 2.4724
  - Island Rank: 186
  - Physics: A, Chemistry: A, Com. Maths: A, General English: A

- **H/Vijayaba National School**   *2010 - 2015*
  GCE Ordinary Level   Hungama, Sri Lanka
  - 7A, 2B

PROJECTS

- **Geometric Deep Learning for Molecular Dynamics (FYP)**   *Jul 2025 - Present*
  Tools: PyTorch Geometric | SE(3)-Transformer | MDAnalysis | OpenMM | RDKit
  - Developing physics-informed GNN framework using SE(3)-equivariant architectures with MD temporal encoding to predict protein-ligand binding energetics and conformational stability, accelerating drug discovery.
  - Integrate quantum-aware task heads with electronic structure descriptors to model charge transfer, polarization, and orbital effects in molecular interactions.
  - Implement multi-task learning to simultaneously estimate interaction energy and RMSD-based stability.

- **NexLib**   *Jul 2024 - Oct 2024*
  Tools: React | NodeJS | ExpressJS | MySQL | TailwindCSS   [⚙]
  - This is semester 5 software engineering project. Contributed in frontend, backend and database design.
  - The system enables users to manage books, track borrow or return records, handle user registrations, and maintain real-time availability status.
  - The frontend is built with React and TailwindCSS for a responsive and user-friendly interface, while the backend is developed using Node.js and Express with a MySQL database for secure and efficient data management.

- **Green Cart** *Jul 2025*

  Tools: React | NodeJS | Express | MongoDB [O]
  - Developed and deployed a full-stack grocery delivery web application using the MERN stack, integrating Stripe payment gateway for secure online transactions and deployed on Vercel.
  - Built an admin dashboard with product management capabilities, enabling real time inventory control, order tracking, and comprehensive CRUD operations for the grocery delivery platform

- **SmartSense Music** *Dec 2025*

  Tools: React Native | Expo | NodeJS | PostgreSQL [O]
  - Developed a React Native app that adapts music playback in real time using sensor data, with a simple interface showing context and the current track.
  - Built a Node.js and PostgreSQL backend for context extraction, playlist management and user preferences.

- **My MCP Server** *Sep 2025*

  Tools: TypeScript | MCP SDK | Cloudflare [O]
  - Built a custom MCP server exposing two tools, for answering my CV related queries and sending emails to my gmail address via the Resend API.
  - Deployed the MCP server on Cloudflare Workers, integrates seamlessly with MCP compatible clients such as Claude Desktop.

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, Java, C++
- **Web Development:** React, NextJS, NodeJS, ExpressJS, Springboot, Redux, TailwindCSS, MaterialUI
- **Database Systems:** MySQL, MongoDB, PostgreSQL
- **Data Science & Machine Learning:** Tensorflow, Numpy, Pandas, Matplotlib
- **DevOps & Version Control:** Git, GitHub, Docker
- **Specialized Area:** Full Stack, Machine Learning, DevOps
- **Other Tools & Technologies:** Supabase, Vercel, Cloudflare, Cloudinary, Wordpress

HONORS AND AWARDS

- **Dean's List - Semester 01** *2022*

  University of Moratuwa

- **Mahapola Merit Scholarship** *2020*

  GCE Advanced Level

- **MoraXtreme 8.0 - Rank 87** *2023*

  University of Moratuwa

LEADERSHIP EXPERIENCE

- **Director of Finance and Marketing** *Dec 2024 - Dec 2025*

  Classical Music Society, University of Moratuwa

- **Logistics Committee Member** *Jan 2024*

  CSE Careers Fair 2023, Dept. of Computer Science and Engineering

VOLUNTEER EXPERIENCE

- **Organizing Committee Member** *Jul 2023*

  EXMO 2023, University of Moratuwa

- **Teaching Volunteer** *Aug 2022*

  Shilpasara Project, Leo Club

CERTIFICATIONS

- **HTML, CSS and JavaScript for Web Developers - Johns Hopkins University** *Sep 2024*

ADDITIONAL INFORMATION

Languages: Sinhala (Native), English (Fluent)

Interests: Music, Art, Travel, Cricket