Sahasraka Sachin Perera

Software Engineer

in Sahasraka Sachin Perera

nello-sahasraka

🏶 hello-sahasraka.github.io/portfolio

ABOUT ME

Third-year Computer Science undergraduate with strong foundations in software engineering and web development. Skilled in Python, JavaScript, Java, and React.js, with experience in both front-end and back-end development. Knowledgeable in AI/ML, with a focus on improving software performance and user experience. Passionate about writing clean, efficient, and scalable code. Seeking a software engineering internship to contribute to real-world projects while continuing to grow professionally.

EDUCATION

Sabaragamuwa University

BSc (Hons), Computing & Information Systems

Richmond College

G.C.E. A/L (Physical Science Stream) - 3Bs, Z-Score: 1.3598

Belihuloya, Sri Lanka 2023–Present

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Address: Colombo, Sri Lanka.

Calla Cui Lamba

Galle, Sri Lanka

2021

PROJECTS

• OpalGlow 🕠 🔗 🔼 :

An e-commerce platform for cosmetic equipment allowing admins to manage users, products, inventory, and deliveries. Users can browse products, add items to the cart, submit reviews, and view trending items.

Tech Stack: JavaScript, Express.js, React.js, Supabase, MongoDB, TailwindCSS

• ChemoSense (Group Project) 🗘 🖸 :

A health monitoring system for cancer patients tracking vital signs via IoT devices, analyzing risk with ML, and sending alerts. Includes a desktop app for hospitals and a mobile app for patients.

My Contributions: Training the ML model, backend development, desktop front-end, and IoT integration.

Tech Stack: JavaScript, TypeScript, Python, Numpy, Pandas, React.js, React Native, FastAPI, Firebase, ESP32

• MediTrack (Group Project) 🕠 :

A Laravel web app for managing a university medical center's medicines, tracking inventory, storage, and expiry, generating prescriptions as PDFs.

My Contributions: UI design, database design, user login/authentication, product management module.

Tech Stack: JavaScript, PHP, Laravel, MySQL, Docker, Bootstrap

• LungLense 😯 😯 💶 :

A web app analyzing chest X-rays to detect and classify lung cancer types using a CNN model, generating detailed diagnostic reports.

Tech Stack: TypeScript, Python, Next.js, FastAPI, Framer Motion, TensorFlow

• Social Media Application 🕠 :

A backend for a social media app with user accounts, posts, comments, email verification, and automatic image generation.

Tech Stack: Python, FastAPI, SQLite, Sentry, MailGun, DeepAI

• Echo (Ongoing) 🕠 :

A real-time messaging system for organizations supporting hierarchical user management, bulk messages, read receipts, and offline storage.

Tech Stack: Next.js, Express.js, Node.js, PostgreSQL, Socket.io, Sequelize ORM

• FixPoint (Group Project – Ongoing) 🕠 :

A mobile ticket management system for Domino's Sri Lanka, featuring role-based interfaces, intelligent technician assignment, real-time tracking, and automated logs.

My Contributions: Database design, UI design, and backend development.

Tech Stack: JavaScript, Dart, Flutter, Express.js, Socket.io, Docker, PostgreSQL, Sequelize ORM

TECHNICAL SKILLS

• Programming Languages

Java, JavaScript, TypeScript, Python

• Technical Fields

Full-stack Development, Backend Development, AI/ML

• Databases

MySQL, PostgreSQL, SQLite, MongoDB

• Tools & Services

Docker, Google Colab, Git, Firebase, Figma, Jira

• Frameworks & Libraries

React.js, Next.js, Node.js, Express.js, FastAPI, Laravel

Courses and Certifications

- Advanced Java Programming MIHA Institute
- Advanced Python for AI Engineering MIHA Institute
- Mastering REST APIs with FastAPI Coursera
- Full-Stack Web Development (MERN) Skyrek
- The Typescript You Need for ReactJS with Projects Coursera
- Docker for Absolute Beginners Codeku
- Linux for Absolute Beginners KodeKloud

Memberships & Volunteer Activities

- Volunteer Graphic Designer, "Next Step" IEEE Student Branch, Sabaragamuwa University of Sri Lanka
- Active Member, IEEE Computer Society Sabaragamuwa University of Sri Lanka
- Active Member, Society of Computer Science (SOCS) Sabaragamuwa University of Sri Lanka

References

Mrs. R.M.K.K. Wijerathna

Lecturer (Probationary)

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Faculty of Computing,

Sabaragamuwa University, Sri Lanka.

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WSO2

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