Sankavi Thayaparan

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ABOUT ME

Third-year Computer Science undergraduate at UCSC skilled in software development. Seeking a **Software Engineering Internship** to apply my knowledge on real-world projects and grow my technical abilities.

EDUCATION

University of Colombo School of Computing   *May 2023 - Present*
BSc in Computer Science   GPA: 3.06
Key Modules: Rapid Application Development (React), Advanced Computer Architecture, Machine Learning, OOP, Software Engineering Principles, Database, Data Structure and Algorithms, Programming and Problem Solving.

PROJECTS

BusHub LK — Full Stack Public Transport Management System   ⊙ GitHub Link   *Ongoing*
Technologies & Tools: node.js, React.js, React Native, PostgreSQL, AWS, Git/GitHub

- Developed a comprehensive, full-stack digital platform to modernize and streamline the operations of the Sri Lanka Transport Board (SLTB).
- Replaced inefficient paper-based workflows with a dual-platform solution: a web-based administrative dashboard and a cross-platform mobile app for passengers.
- Engineered key features including real-time fleet monitoring for admins and live bus tracking, route searching, and fare calculation for passengers.

Apex Finance — Full-Stack Personal Finance Dashboard   ⊙ GitHub Link   *2025*
Technologies & Tools: Next.js, React, TypeScript, Tailwind CSS, Prisma, NextAuth.js, SQLite, Framer Motion, Recharts

- Developed a full-stack personal finance dashboard to securely manage and visualize financial data.
- Implemented a modern, responsive front-end with Next.js, featuring data visualization with Recharts and fluid animations.
- Engineered back-end logic using Next.js API Routes for RESTful services and utilized Prisma for type-safe database management.

Secure Login & Authorization API — Backend Development   ⊙ GitHub Link   *2025*
Technologies & Tools: Java, Spring Boot, Spring Security, JWT, Maven, H2, RESTful APIs, GitHub

- Developed a secure, stateless backend API to handle user authentication and authorization using Spring Security and JWT.
- System features password hashing with BCrypt and secures endpoints using Role-Based Access Control (RBAC).

TerraSafe - Safe Place Finder — Mobile App Development   ⊙ GitHub Link   *2025*
Technologies & Tools: Flutter, Dart, Google Maps API, Google Places API, Dio, Geolocator

- Developed a location-aware mobile app with Flutter and Google Maps API to find, display, and navigate to nearby safe places using real-time GPS data.
- Designed an intuitive UI with a slide-up bottom sheet to show detailed place information, such as address and open/closed status, retrieved from the Google Places API.
- Implemented an in-app chatbot to provide users with immediate assistance and quick access to safety information.

Sameepa — Full Stack Closed Community Management Platform   ⦿ GitHub Link   *2024*
Technologies & Tools: PHP, MySQL, JavaScript, HTML, CSS, Apache, Git/GitHub, Figma

- – Developed a full-stack web platform to digitize operations and enhance connectivity within closed residential communities.
- – Engineered a feature-rich system with role-based access for residents, admins, and staff.

AgroMart E-commerce Platform — Full-Stack Development   ⦿ GitHub Link   *2024*
Technologies & Tools: Node.js, Express.js, React, MongoDB, Stripe API, JWT

- – Built a full-stack e-commerce site using the MERN stack.
- – Developed a secure RESTful API to manage products, users, and orders, implementing JWT for authentication and Stripe for payments.

SKILLS

Programming Languages	Java, JavaScript, Python, C, Scala
Web Development	React.js, Spring Boot, Node.js, Django, Next.js (API Routes), Spring Security, Tailwind CSS
Database Technologies	MongoDB, MySQL, PostgreSQL, SQLite, H2
Tools and Platforms	Git, GitHub, AWS, Docker, Maven, Figma
Methodologies	Software Development Life Cycle (SDLC), Agile Concepts
Languages	Tamil and English

VOLUNTEERING & MEMBERSHIPS

Member, Club Service Avenue — Rotaract Club of UCSC   *2024*

- – Actively participate in projects and meetings focused on serving the club and its members.

Member — Gavel Club of UCSC   *2024*

- – Regularly engage in public speaking exercises to improve communication and leadership skills.

CERTIFICATIONS

- Front End Development Libraries - freeCodeCamp
- HTML, CSS, and JavaScript for Web Developers - Coursera
- Next.js Essential Training - LinkedIn Learning
- Machine Learning with Python: Foundations - LinkedIn Learning

REFERENCES

Mr. Kenneth Thilakarata	**Dr. L.N.C. De Silva, B.Sc. (Pdn), Ph.D. (Col)**	**Mr. Shinthujen Inpagaran**
Lecturer - UCSC	Senior Lecturer - UCSC	Software Engineer - Pagero Software Engineering Pvt Ltd
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