SUDUL FERNANDO
SOFTWARE ENGINEER

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EDUCATION

Sri Lanka Institute of Information Technology (SLIIT) **Feb 2021 - Mar 2025**
B.Sc. (Hons.) in Information Technology Specializing in Software Engineering
Cumulative GPA: **3.69**/4.00 | Dean's List Prize for Academic Excellence (2021, 2024)

S.Thomas' College, Mount Lavinia **2011 - 2020**
G.C.E. A/L (2020): Physical Science - 1A, 3Bs | O/L (2017): 9As

SUMMARY OF SKILLS

Technical Skills:	Java, NodeJS, ReactJS, Express, React Native, Python, SpringBoot, TypeScript
Specializations:	Monolithic, Microservices, Feature Enhancements, Prompt Engineering, Cloud Computing
Tools & Platforms:	Docker, Azure, Jenkins, Bitbucket, Git, Postman, Jira, Wiki, Firebase, DBeaver
Databases:	MySQL, MSSQL, PostgreSQL, MongoDB
Core Skills:	Analytical Thinking, Cross-Functional Teamwork, Adaptability
Languages:	English, Sinhala

WORK EXPERIENCE

Infor - Associate Software Engineer **Dec 2023 - Present**
- Engineered **15+** features including custom user fields and configuration tools via **Java** framework enhancements.
- Built **10+** UI features using **JavaScript**.
- Architected framework designs for upcoming objects, improving accessibility by **60%**.
- Created migration scripts using **Java** and **SQL**, optimized queries with DBeaver, and validated object structures using Postman, improving performance by at least **70%**.
- Fixed **20+** critical bugs to maintain **platform stability** and **collaborated** with teams to ensure workflow integrity.

Technologies: Java, Angular, JavaScript, SQL, Postman, DBeaver, Jira, Wiki, Jenkins, Docker, Amazon Q, BitBucket

Cube - Associate Software Engineer **Aug 2023 - Dec 2023**
- Automated daily workflows using Python and .NET scripts, improving the efficiency by **200%**.
- Structured **120+ books** with JavaScript, NodeJS, and C#.
- Managed code and **100+** outputs via BitBucket, Sourcetree, and Microsoft Azure Storage.
- Rendered and processed documents using REST client and Puppeteer.

Technologies: JavaScript, NodeJS, C#, Python, .NET, REST, Puppeteer, Azure, BitBucket

Infor - Software Engineering Intern **Feb 2023 - Aug 2023**
- Contributed to a critical stack **migration of 54 business objects**, transitioning frontend UIs and client-side scripts to server-side development, resulting in **60% improved efficiency** and expanded feature capacity.
- Designed test objects and a **JSON-to-Java converter** to streamline module migration.
- Integrated **JavaScript**-based UIs and created a ScriptLoader to execute JS logic in **Java**.
- Gained exposure to **Ionic**, **Angular**, and the Infor framework.

Technologies: Java, JavaScript, Angular, Ionic, JSON, BitBucket

PUBLICATIONS

Fernando, S., Leo, C., Tharushika, C., Mawaththa, R., Perera, J., Vidhanaarachchi, S. and Kasthurirathna, D., 2024, December. Assisting Hearing-Impaired Children by Personalized Gamification of Auditory Verbal Therapy. In 2024 6th International Conference on Advancements in Computing (ICAC) (pp. 414-419). IEEE.

RECENT PROJECTS

AudiSense - Web Application & Mobile Application [AI-Powered AVT Platform]

- Conducted research on personalized gamification of Auditory Verbal Therapy (AVT) to assist hearing-impaired children. Collaborated with Ayati Center, Ragama, and Wickramarachchi Opticians and Hearing Care for validation, involving 4 therapists and 4 children across 8+ test sessions.
- Built **ReactJS** web and **React Native** mobile apps for therapist–child interaction with **NodeJS** and **Python** microservices backend.
- Integrated OpenAI GPT models with advanced prompt engineering to generate adaptive therapy content, increasing personalization by **80%+** for children's auditory skill levels.

Technologies: ReactJS, NodeJS, React Native, Python, Firebase, GPT 4o mini, MongoDB, Render

Sales Optimization Application - Web Application   _App_ 🔗   _Machine Learning Module_ 🔗

- Enhanced a sales analytics platform integrating predictive models to optimize revenue and improve sales forecasting accuracy by **30%+**.
- Constructed backend services using **SpringBoot** and **Python ML scripts for data-driven insights.**

Technologies: SpringBoot, ReactJS, MongoDB, Python, Machine Learning, Azure

Github Repository 🔗

Material Inspector - Mobile Application

- Developed a mobile app for clothing inventory inspection, increasing tracking efficiency by 45%.
- Implemented **Firebase** auth and real-time **MongoDB** sync for secure and instant data access.

Technologies: React Native with Expo, NodeJS, Firebase, MongoDB

Github Repository 🔗

Herbal Medicine Selling Platform - Web Application

- Architected a microservices e-commerce platform for herbal medicine distribution, containerizing and deploying services via **Docker** & **Kubernetes**, improving scalability and deployment speed by **50%**.

Technologies: MongoDB, ReactJS, NodeJS, ExpressJS, Docker, Kubernetes, Microservices Architecture

CERTIFICATIONS

Guide to Enterprise Resource Planning (ERP) Systems	Alison	_Link_ 🔗
Software Engineer	HackerRank	_Link_ 🔗
Frontend Developer (React)	HackerRank	_Link_ 🔗
Problem Solving	HackerRank	_Link_ 🔗
Java	HackerRank	_Link_ 🔗
Python	HackerRank	_Link_ 🔗
MongoDB Aggregation	MongoDB	_Link_ 🔗
MongoDB Indexes	MongoDB	_Link_ 🔗
MongoDB and the Document Model	MongoDB	_Link_ 🔗
MongoDB for SQL Professionals	MongoDB	_Link_ 🔗

INTERESTS & ACHIEVEMENTS

Debating: College Captain (2020), Best Sinhala Debater of the Year (2020), Debating since 2014
Interests: Chess, Cricket, Badminton, Football, Quizzes