NIPUNA ALUTHDENIYA

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As a **Software Engineer with 2 years of experience** in the industry, I build high-quality software by transforming ideas into clean, intuitive, and scalable applications. I am deeply focused on user experience, thoughtful design, robust architecture, and maintainable code, and I am eager to contribute my skills to an innovative organisation that is shaping the future of technology.

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, TypeScript, C#, PL/SQL

Technologies: Angular, Node.js, .Net, Spring Boot

Methodologies: Agile (Scrum), Test-Driven Development (TDD)

Cloud Services: AWS

Databases: MSSQL, MySQL, MongoDB, Oracle

Version Controlling: Bitbucket, GitHub

Frameworks: React.js, Redux, Next.js, React Native, Express.js, Bootstrap, TailwindCSS

DevOps & CI/CD: Jenkins, Docker, Maven

Data & AI Concepts: NLP, Data Mining, Fuzzy Logic, LangChain

EXPERIENCE

Software Engineer   *Jul 2024 – Jan 2026*
IFS R&D International (Pvt) Ltd.   *Sri Lanka*

- Developed core features for Line Maintenance and Hangar Maintenance modules within the Maintenance Execution domain.
- Successfully migrated and integrated a third-party supply chain platform into IFS Supply Chain, enabling efficient stock control and materials management aligned with aviation maintenance requirements.
- Designed and implemented core Labor Hours and Skill Validation functionalities, including aggregated labor summaries, mandatory actual time tracking, controlled assignment workflows, bulk sign-off processes, and technician skill reflection in fault creation across Web and Native Mobile platforms.
- Designed and implemented the integration of Work Order and Work Task with aviation task models using model inheritance, delivering the solution within a single release cycle while maintaining system stability.
- Implemented both asynchronous and synchronous communication patterns to support scalable, resilient, and high-performance third-party system integrations.
- Improved mobile application offline capabilities and optimized application initialization, enhancing usability and performance in low connectivity operational environments.
- Collaborated with business stakeholders and technical teams to gather requirements, define integration strategies, and ensure on-time delivery, while providing proactive, priority-based production support to resolve critical issues and minimize operational disruption.
- Mentored peers and interns by guiding them through technical challenges, conducting code reviews, and promoting clean, maintainable coding standards.
- Developed and maintained enterprise-grade Aviation Maintenance and ERP systems for airline operations leveraging **web and mobile application development technologies**, **IFS ERP (Aviation Domain)**, **Java**, **PL/SQL**, **AWS cloud services**, **Docker containers**, **Bitbucket**, and **CI/CD pipelines**.

Trainee Software Engineer *Jan 2023 – Jul 2023*
Pristine Solutions (Pvt) Ltd. *Sri Lanka*

- Collaborated with the development team to identify and implement feature enhancements.
- Worked closely with SriLankan clients to gather requirements and develop feature requests.
- Mainly worked on Harcourts Web Project, Domex Project and TPL Web Project.
- Full-stack development using **Angular**, **Node.js**, **C#**, **.NET**, **SAP HANA**, **SAP HANA XS Javascript(XSJS)**.

EDUCATION

Bachelor of Science (Hons) in Information Technology *Dec 2024*
University of Moratuwa, Sri Lanka *GPA: 3.43*

PROJECTS

Academic Journal Library (Research) | *Python, Natural Language Processing* *Aug 2023 – Aug 2024*

- Proposed and implemented a system to summarise full-text articles, categorise literature by subject hierarchy, extract section-wise content, and integrate LLM-based Retrieval Augmented Generation to improve insights and mitigate hallucination in scientific QA.

  Publications :
- Centralized and Labeled Academic Journal Library Using Machine Learning & Deep Learning Approaches, **[Best Student Paper Award]** $10.1109/ICIPRoB62548.2024.10544300$ ⬀
- Layout Aware Research Paper Parsing and Draft Research Paper Layout-Error Detection Using NLP and Rule-based Techniques, $10.1109/ICITR64794.2024.10857771$ ⬀

TPL WEB Project | *Angular, SAP HANA XS Javascript (XSJS), SAP HANA* *Jan 2023 – Jul 2023*

- The SAP-integrated web application is designed to fully support SAP Business One while addressing the specific needs of TPL.
- Contributed to live issue resolution and bug fixes through direct collaboration with the TPL client. Additionally, implemented feature enhancements requested by the client to improve functionality and user experience.

Salon Management System | *React, TailwindCSS, Node.js, Express.js, MongoDB* *Jun 2022 – Jun 2023*

- Developed a web application for employee, stock, and service management, contributing as a full-stack developer with a primary focus on job management functionality.
- Contributed to the development of the web application, serving as a full-stack developer with a main focus on job management.

Performance Appraisal System | *Angular, Bootstrap, ASP.NET core, C#, MSSQL* *Sep 2021 – Jul 2022*

- Developed a web-based Performance Appraisal System to efficiently measure employee performance, replacing the existing time-consuming appraisal process at JRC Software (Pvt) Ltd.
- Contributed user authentication and authorisation features, including user registration, sign-in, email confirmation, role-based access control, password recovery, and reset functionality.

REFERENCES

References are available upon request. Please feel free to contact me if you require references.