



Kalindu Wijerathna

Final Year Engineering Undergraduate

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Passionate and creative tech enthusiast with a strong work ethic, dedicated to building intelligent, scalable systems across the full stack and beyond.

Experience

Creative Software

Jul 2024 – Jan 2025

Software Engineer - Intern (6 months)

Full Stack Development Tasks

- Spearheaded the development of 10+ major features for **TrackIT V4**, an enterprise multi-tenant HR management system, using **Java**, **Spring Boot**, **React**, **TypeScript** and **PostgreSQL**.
- Engineered core UI/UX components (Login Page, Navigation Bar, Tool Bar) during frontend migration from Angular to React, ensuring seamless integration with backend authentication via **Microsoft AD** and **Local LDAP** with **JWT**.
- Developed a high-performance **Global Task Search** using a three-layered fuzzy search with **Levenshtein** Distance and integrated it with **Redux** for state management, enhancing discoverability across modules.
- Built a **Global User Preferences Mechanism** using **custom React hooks** and **Context API** to manage system-wide and user-specific settings (locale, language, date-time, currency), with multi-tenant support and flexible UI configuration.
- Designed and implemented a **multi-tenant onboarding frontend service** for purchasing & registering client organizations, with plan selection and initializing tenant-specific environments—enabling customer provisioning.
- Designed and developed a **Generic Form Designer**—a powerful and intuitive interface that enables admin users to create and configure a wide variety of dynamic forms through a user-friendly GUI, without requiring any technical knowledge. Supported flexible layouts, field types, and validation rules to enhance system adaptability.
- Resolved critical bugs in backend services and frontend logic, boosting system stability and reducing QA-reported issues.
- Applied quality standards with **JUnit**, **Allure**, **ESLint**, **Stylelint**, and **SonarQube** to ensure maintainable, testable code.
- Practiced Agile sprint planning, code reviews, and daily standups; followed version control using **Git** and **Azure Repos**.

DevOps Tasks

- Designed and implemented 6 end-to-end **CI/CD pipelines** for frontend (**React**), backend (**Spring Boot**), and Tenant Service modules using **Azure DevOps**, enabling fully automated testing, building, and deployment workflows.
- Configured and managed Linux-based deployment environments across development, testing, staging, and production stages on internal **VPS** infrastructure, including **Apache Tomcat** server setup and **Maven** dependency management.
- Integrated **Allure** for automated test documentation generation and **refactored unit and integration testing pipelines** to improve CI workflow efficiency, reporting clarity, and long-term maintainability.
- Intergrated Enforcement of strict code quality standards through automated linting and formatting workflows with **ESLint**, **Prettier**, **Stylelint**, and **SonarQube**, integrated via pre-commit hooks and CI validations.

University of Peradeniya, Faculty of Engineering

Apr 2025 – Present

Casual Instructor - Software Engineering | Computer & Network Security

- Assisting in conducting Software Engineering (CO328) and Computer and Network Security (CO325) laboratories, supporting 3rd-year undergraduate students with practical exercises and concepts.

Education

BScEngHons Specializing in Computer Engineering

Mar 2021 – Present

University of Peradeniya	CGPA: 3.60 / 4.00	
GCE Advanced Level Physical Science Stream (A — A — A)		2019
Dharmaraja College, Kandy	Z-Score: 2.164	
Cisco Certified Network Associate (CCNA 200-125)		2020
AWS Cloud Solutions Architect Professional Specialization		2024
AWS Coursera – 4 Course Specialization		
Java Spring Framework Specialization		2025
LearQuest Coursera – 4 Course Specialization		
Meta Front-End Developer Professional Certificate Specialization (React)		2025
Meta Coursera – 9 Course Specialization		
Architecting with Google Kubernetes Engine Specialization		2025
Google Coursera – 3 Course Specialization		
Certified Kubernetes Application Developer (CKAD) Specialization		2025
LearnKartS Coursera – 3 Course Specialization		

Technical Skills

Languages	Java, C, Python, C++ , PHP, , JavaScript	Frameworks	Spring Boot, React, Node.js, Express
DevOps	Jenkins, Azure DevOps, Ansible, Terraform	Containerization	Docker, Kubernetes, Singularity
Cloud	AWS, Google Cloud (GCP), Azure	Scripting	Bash, Batch
Databases	MySQL, PostgreSQL, MongoDB	Networking	Cisco Routing & Switching, ASA Firewalls
Versioning	Git, GitHub, Azure Repos	Monitoring	Prometheus, Grafana, Zabbix

Selected Projects

NLP-Driven Intent-Based Networking Architecture for SDNs (Final Year Research Project)	Dec 2024 – Present
<ul style="list-style-type: none">Design and implement a layered architecture integrating Natural Language Processing (NLP) with Software-Defined Networking (SDN) to translate high-level intents into actionable network configurations.Automate diverse topology provisioning using Mininet, Containernet and Bash to assess scalability, resilience, and security; integrate ONOS SDN controllers with Prometheus and Grafana for real-time monitoring and analytics.Led NLP model deployment, managing server setup, infrastructure, and API integration for real-time intent processing.	
Digital Signage System (Group) – IT Center, University of Peradeniya	Aug 2023 – Jan 2024
<ul style="list-style-type: none">Officially deployed on-site in Jan-2024 and actively utilized by the university staff members till present.Developed a scalable CMS solution replacing manual scheduling with centralized management and dynamic scheduling.Built secure PHP backend APIs with robust authentication and session management for reliable data access.Created a responsive, user-friendly course content management interface using React and TypeScript.Contributed to system architecture, admin dashboards, and scheduling algorithms; Integrated GitHub Actions CI/CD.	
Acadametrix (Group) – Student Result Management Platform	Apr 2024 – Dec 2024
<ul style="list-style-type: none">Built a full-stack result portal with secure role-based access using Spring Boot, Thymeleaf, MySQL, and Tailwind CSS.Developed RESTful APIs for results, and user management using Spring Web, Spring Data JPA, and validation.Configured Jenkins CI/CD pipelines; automated deployment on AWS EC2, VPC using Terraform and Ansible.	
Pera Link (Group) – Social Media Platform for University of Peradeniya Community	May 2023 - Aug 2023
<ul style="list-style-type: none">Built RESTful backend APIs with Express.js and Node.js for authentication, user management, and real-time data.Designed and optimized MySQL schema for scalable, efficient social media queries.Contributed to system architecture, deployment, and configuration to enhance stability and maintainability.This idea (our original undergraduate project) was officially adopted by HackersClub UoP as their first long-term, university-wide initiative; collaborating across faculties with me serving as DevOps Lead. (Dec 2024 – Present)	

Volunteering/Leadership

Project Nenathambara – Finance Lead	2023 – 2024
Manage finances for a nationwide IT workshop series promoting IT education in Sri Lankan schools.	
Singularity Containerization Project – DL Workflow Team Member	Jul 2023 – Dec 2023
Deployed Singularity containers on HPC servers to support scalable research workflows.	
Departmental HPC Server Group Member	2023 – Present
Maintain, optimize, and secure HPC servers, including system updates, performance tuning, and cluster node integration.	

Competitions / Extra-curricular

ACES Hackathon – 3rd Place	2023
48-hour idea-pitching competition with 40+ teams; introduced an open-source charitable platform called <i>CharityVerse</i> .	
ACES Pre-Coders v10 – 7th place (60+ Teams)	2023
6-hour university-wide team coding competition hosted by ACES, University of Peradeniya.	
MoraXtream 8.0 – 30th Place (200+ Teams)	2023
12-hour island-wide inter-university coding competition organized by University of Moratuwa.	
All-Island School Music Competitions – 1st (Classical Singing Group), 2nd (Folk Orchestra)	2017
Visharad in Vocal (2015) & Violin (2016)	Bhathkande Sangit Vidyapith, Lucknow
School Orchestra – Singer & Violinist	Dharmaraja College, Kandy

References

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