

SUPUN JAYaweera

Software Engineer

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Dedicated Computer Engineer graduate (Pending Results) specialized in Software Engineering in University of Ruhuna including 6 months of internship experience at Sri Lanka Telecom. Proven expertise in building scalable Java Spring Boot microservices and MERN stack applications. Experienced in technical leadership and DevOps.

EDUCATION

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| • BSc. Eng in Computer Engineering University of Ruhuna | 2020 - Present |
| • G.C.E. A/L Maris Stella College, Negombo 2A, 1C Physical Stream | 2016 - 2019 |

PROFESSIONAL EXPERIENCE

Software Engineering Intern | Sri Lanka Telecom PLC | (6 Months)

- **Technical Leadership:** Served as Team Lead for the Business Continuity Management System (BCMS), managing full-stack development and system administration.
- **Secure Authentication:** Integrated **Azure Active Directory** and JWT-based role-based access control to secure backend API endpoints.
- **Infrastructure & Deployment:** Hosted applications on **Red Hat Linux** and **Ubuntu servers** using **Nginx** as a web server/reverse proxy and **PM2** for process management.
- **Database Engineering:** Implemented a three-node **MongoDB** Replica Set on **AWS EC2** and local SLT VMs.
- **Quality Assurance:** Conducted code quality audits via **SonarQube** and automated vulnerability scans using **OWASP ZAP**.

SKILLS

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| • Programming Languages | - Java, HTML/CSS/JavaScript |
| • Frameworks and Libraries | - Spring Boot, React, Bootstrap |
| • Technology Stacks | - MERN Stack |
| • Database | - MySQL, MongoDB |
| • Version Control | - Git, GitHub, Bitbucket |
| • Cloud Services | - AWS, Azure, Digital Ocean |
| • DevOps | - Docker, Jenkins |
| • Soft Skills | - Technical Leadership, Technical Leadership |

PROJECTS

Business Continuity Management System (BCMS) Web Application Project

- This is a project on Sri Lanka Telecom PLC.
- Worked as the team lead and a web developer During 6 Month Internship.
- Successfully deployed the BCMS application on SLT's production servers, using PM2 and Nginx reverse proxies
- Technologies: **MongoDB**, **Express.js**, **React**, **Node.js** and **Azure Active Directory Authentication**.
- Deployment: **Ubuntu**, **Red hat Linux**, **NGINX**, and **PM2**
- Version Control: **Bitbucket**

Predictive Maintenance System for Lathe Machines (Final Year Project) - [Repository link](#)

- This is a 4-member group project and I am responsible for building the web application and deployment.
- The system was developed using ESP32, ADXL345 vibration sensors, DHT 11 temperature sensor and Kafka/InfluxDB data pipelines with Spark processing and Forecasting AI Model.
- Implemented software-side analytics and hosted the web application (**MERN Stack**) on a custom Virtual Machine.

Bookfair Stall Reservation System– [Repository link](#)

- Designed the system architecture using **C4 models**.
- This is a 6-member group project and I am responsible for the backend development.
- Used **Microservices Architecture**
- Built a robust backend with **Java Spring Boot**.
- Technologies: Java **Spring Boot**, **React**, **Eureka Server**, **Kafka** and **MySQL Database**.

MongoDB Cluster Implementation – [Article link](#)

- Deployed a distributed **MongoDB Cluster** and verified performance with MERN-stack CRUD operations.
- Published two technical articles on Medium regarding **Replica Set** implementation.

POS SYSTEM BACKEND APPLICATION – [Repository link](#)

- This is an individual project.
- The java spring boot backend application framework is used.
- The layered architecture is used.
- Technologies: **Spring Boot**, **Swagger** and **MySQL**.

EXTRACURRICULAR ACTIVITIES

- **Chess:** Served as the Vice-Captain of the chess team at Harishchandra College, Negombo, and led the team to a tournament championship in 2015.
- **Cricket:** Actively played as a cricketer for the Cricket Academy Negombo (CAN).
- **Volunteering & Leadership:** Served as an Organizing Committee (OC) member for the KOICA Workshop at the University of Ruhuna, Faculty of Engineering.

CERTIFICATIONS AND LICENSES

- Version Control - Coursera
- Docker Training Course- kodekloud
- Web Design for Beginners – University of Moratuwa
- AWS Cloud Technical Essentials – Coursera

REFERENCES

Mr. Kosala Tennakoon

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