

SACHITH WASALA

+94 76 487 4911 | sachith.nwasala@gmail.com | Padukka, Sri Lanka
sachithwasala.me | [LinkedIn](#) | [GitHub](#)

SUMMARY

Software Engineering graduate from SLIIT with 2+ years of professional experience in full-stack software development. Skilled in building scalable applications with Java, Spring Boot, React, Next.js, TypeScript, Laravel, SQL, and RESTful APIs. Experienced in Agile development, database integration, software testing, automation, and production deployment. Interested in scalable software solutions and AI/ML-powered applications.

SKILLS

- **Programming Languages:** Java, JavaScript, TypeScript, Python, PHP, C#
- **Frontend Development:** React.js, Next.js, HTML5, CSS3, SCSS, Tailwind CSS
- **Backend Development:** Spring Boot, Node.js, Express.js, Laravel, RESTful APIs, Microservices
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Cloud & DevOps:** AWS, Azure, Docker, Kubernetes, LocalStack
- **Testing:** JUnit, Jest, Unit Testing, Integration Testing
- **Tools & Version Control:** Git, GitHub, GitLab, Jira
- **AI & Machine Learning:** Machine Learning, Deep Learning, Computer Vision, LLMs, RAG, OpenAI, LangChain, Vector Databases

WORK EXPERIENCE

Trainee Software Engineer | Axonect (Axiata Digital Labs)

Aug 2025 – Aug 2026

- Developed and maintained full-stack web applications using Next.js, React, TypeScript, Laravel (PHP), and Spring Boot (Java).
- Developed and integrated RESTful APIs, implemented new features, and resolved software defects to improve application functionality, performance, and reliability.
- Developed Python scripts to automate repetitive tasks, process data, and support application workflows.
- Collaborated in an Agile/Scrum environment, participating in sprint planning, daily stand-ups, sprint reviews, and retrospectives.
- Used Jira for project and task management and GitLab for version control, branching, merge requests, and code reviews.
- Supported production deployments and release activities, gaining hands-on experience with production environments and deployment processes.

Software Engineer Intern | Apps Technologies Pvt Ltd

Dec 2024 – Aug 2025

- Developed and maintained an LMS and ERP admin system using Laravel (PHP), contributing to full-stack web development.
- Implemented backend features, database operations, and administrative functionality using Laravel and MVC architecture.
- Collaborated with senior developers through code reviews and Git-based workflows using Git and GitHub.
- Participated in client discussions, daily stand-ups, and Scrum meetings to gather requirements and ensure timely delivery.
- Worked in an Agile development environment, contributing to feature enhancements, bug fixes, and continuous improvements.

Junior Web Developer | Mavas Digital

Dec 2023 – Dec 2024

- Developed responsive web interfaces and implemented application features using HTML, CSS, JavaScript, WordPress, and MySQL.
- Implemented and supported web development tasks using HTML, CSS, JavaScript, and MySQL.
- Assisted with website updates, troubleshooting, maintenance, and feature enhancements to ensure reliable application functionality.
- Contributed to the development and maintenance of web projects, completing assigned tasks and supporting delivery of project requirements.

EDUCATION

BSc (Hons) in Information Technology – Specialization in Software Engineering

Sri Lanka Institute of Information Technology (SLIIT)

June 2022 – June 2026

PROJECTS

EV Charging Station Booking System (Group Project) | [GitHub](#)

Technologies: React.js, Tailwind CSS, Java, ASP.NET, MongoDB

- Built a full-stack EV charging slot booking platform with real-time scheduling, conflict-free reservations, and QR-based booking verification.
- Developed a responsive React + Tailwind web interface and a .NET (C#) backend hosted on IIS, with MongoDB for data persistence.
- Integrated Google Maps for station location and navigation and built a native Android app (Java) for mobile access.

Cloud-Native Food Ordering & Delivery Platform (Group Project) | [GitHub](#)

Technologies: JavaScript, React, Node.js, Express.js, MongoDB, Docker, Microservices, Kubernetes

- Architected a scalable microservices-based food delivery system using Docker for containerization and Kubernetes for local orchestration.
- Built role-based access (Customer, Restaurant Admin, Delivery Personnel), real-time delivery tracking, Stripe payment integration, and SMS/email notifications.

Patient Management System – Backend Development | [GitHub](#)

Technologies: Java, Spring Boot, Microservices, Docker, PostgreSQL, AWS LocalStack

- Building a microservices-based Patient Management System backend with Spring Boot, Docker, and PostgreSQL.
- Adding an API Gateway, load balancing, JWT security, and REST/gRPC inter-service communication.
- Implementing Kafka event workflows, integration tests, and AWS LocalStack + IaC for deployment simulation.

AI-Powered Inmate Emotion & Mental Health Analyzer | [GitHub](#)

Technologies: YOLOv11n, Deep Learning, Computer Vision, LLMs, RAG, Vector DBs, Python, OpenCV

- Built an inmate mental-health assessment system using YOLOv11n-based facial emotion recognition trained on FER2013 to detect emotional states automatically.
- Integrated counsellor/in-charge survey inputs plus RAG document understanding (chunking, embeddings, vector DB) for inmate-specific context.
- Used an LLM to classify mental-health levels and generate personalized activity recommendations with an automated analysis report.

AI-Driven Integrated Prison Management System | [GitHub](#)

- Developed a microservices system with 4 core components: Inmate Records, Violation Tracking, AI Rehabilitation (XGBoost/Scikit-learn), and Inmate Wellness Monitoring.
- Facial Emotion & Gender: captured live WebRTC video and mapped expressions using a CNN (YOLOv11) trained on custom datasets.
- Voice Emotion Analysis: processed microphone audio streams via quantized Word2Vec (CBOW) to detect vocal distress.
- NLP & Sentiment: evaluated psychological questionnaire text using HuggingFace Transformers (DistilBERT/BART).
- Medical RAG System: digitized handwriting using GLM-OCR and embedded historical PDFs into ChromaDB for vector-based semantic search.

CERTIFICATIONS

- Python for Beginners - July 2024
- Python Programming - December 2025
- AWS SimuLearn: AI Practitioner Training Badge, Amazon Web Services - August 2026

REFERENCES

Shelan Peiris

Head of Competency Excellence – SE, Senior Architect

Axiata Digital Labs

shelan.peiris@axiatadigitallabs.com

[+94 77 333 5487](tel:+94773335487)

Manjula Devapura

Associate Tech Lead - Software Engineering

Axiata Digital Labs

manjula.devapura@axiatadigitallabs.com

[+94 74 202 5502](tel:+94742025502)