

# Chalitha Laksahan

## Trainee Software Engineer

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### Professional Summary

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Aspiring software engineer with practical experience creating both standalone apps and smart web platforms. Known for successfully leading development teams to deliver creative solutions, including designing AI-powered platforms using Spring Boot and Python. Committed to writing clean, maintainable code while continually growing full-stack skills with modern JavaScript frameworks to provide smooth, end-to-end user experiences.

### Technical Skills

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- **Programming Languages:** Java, JavaScript, Python, TypeScript
- **Framework & Libraries:** Angular, Spring Boot, Bootstrap, Tailwind CSS, Three.js
- **Database & ORM:** MySQL, Hibernate, Supabase
- **Development Tools:** Git, GitHub, VS Code, NetBeans, IntelliJ IDEA, Figma, Postman
- **Methodologies:** Agile/Scrum, REST API Development, Responsive Web Design
- **Security & Authentication:** OAuth2, JWT, Spring Security

### Projects

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**AI-Powered Mock Interview Platform** | Team Lead / Full-Stack Developer 🐙 Frontend · 🐙 Backend  
*Tools:* Spring Boot, Angular, Python, Groq AI, Three.js, Supabase

- Architected a comprehensive AI interview platform across a Spring Boot and Python backend, designed to streamline HR screening workflows and significantly reduce manual interviewing time by automatically filtering top candidates.
- Integrated whisper-large-v3-turbo via Groq AI for ultra-low-latency speech processing, powering a dynamic, context-aware question generation engine.
- Engineered a highly responsive UI by rendering an interactive 3D AI interviewer directly on the client side using Three.js within an Angular component, eliminating server-side rendering overhead and achieving real-time conversational fluidity.
- Implemented secure, scalable cloud storage using Supabase to manage CV uploads, ensuring reliable file ingestion for the platform's automated AI resume-review pipeline.

**Standalone Clothing Store POS System** | Desktop Application Developer 🐙 Standalone  
*Tools:* JavaFX, Hibernate, MySQL, Jasper Reports, Figma

- Designed and developed a comprehensive, standalone Point of Sale (POS) system tailored for retail clothing store management, overseeing the entire project lifecycle from concept to deployment.
- Enforced a strict layered software architecture, separating UI, business logic, and data access layers to ensure codebase maintainability and scalability.
- Integrated Hibernate for robust Object-Relational Mapping (ORM) with a MySQL database, heavily utilizing the Builder design pattern to streamline complex entity creation and data management.
- Prototyped a modern, intuitive user experience using Figma, and accurately translated the designs into highly responsive JavaFX interfaces to optimize the daily workflow of shop staff.
- Implemented automated, dynamic invoice and receipt generation using Jasper Reports, streamlining the checkout process and providing reliable daily sales documentation.

## Movie Web Application | Frontend Developer

Frontend

Tools: JavaScript, Tailwind CSS, HTML

- Developed a dynamic, responsive frontend web application for movie discovery and browsing, focusing on a clean, intuitive UI to enhance user engagement.
- Integrated a third-party REST API to asynchronously fetch and display real-time cinematic data, including trending titles, detailed synopses, and dynamic image rendering.
- Implemented robust state management and search filtering capabilities entirely on the client side, allowing users to efficiently query and sort movies by title, genre, or release date without a dedicated backend.

## Education

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### Dip. Software Engineering (ICD Programme)

July 2025 – Present

*Institute of Computer Engineering Technology (iCET) | Panadura, Sri Lanka*

– Intensive, industry-simulated curriculum focused on full-stack development, modern workflows, and agile principles.

### Dip. Graphic Design

Dec 2024 – June 2025

*Sipway Campus | Kurunegala, Sri Lanka*

– Logo Design, Visiting Card Design, Flyer and Brochure Design, Poster, Retouch image, Correct color levels, Mask image, Re-sample image, Use AI

## Certifications

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Java: Data Structures – *LinkedIn*

Dec 2025

JSON Essential Training – *LinkedIn*

Dec 2025

Agile Project Management with Jira Cloud – *LinkedIn*

Mar 2026

Foundations of AI and Machine Learning for Java Developers – *LinkedIn*

Mar 2026

## Additional Professional Experience

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Engineering Lab Assistant | 3S Fabrications Pvt Ltd | April 2022 - April 2026

- *Troubleshooting Debugging*: Identified and resolved hardware component faults during digital loadcell manufacturing, proving strong analytical skills.
- *Attention to Detail*: Executed high-precision hardware modifications, including delicate laser engraving and soldering.
- *Systems Thinking*: Evaluated raw data and manufacturing outputs to maintain high-quality standards across integrated hardware systems.

## References

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### Mr. Sharada Marasinghe

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### Mr. RDAV Randeniya

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