

# JITHMA VITHANAGE

## SOFTWARE ENGINEER

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### SUMMARY

Full-stack developer with 2+ years of PHP/Laravel expertise transitioning to Java ecosystem. Currently pursuing M.Sc. in Computer Science with focus on software engineering and algorithms. Proven ability to design scalable web applications, optimize databases, and implement cloud solutions. Passionate about building secure backend systems with Spring Boot.

### CAREER HISTORY

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|---|----------------------|
| • Software Engineer, Unitec Software Solutions              | April 2025-July 2025 |
| • Associate Software Engineer, Zuse Technologies (Pvt) Ltd  | Dec 2023 - Nov 2024  |
| • Intern Software Engineer - Databox Technologies (Pvt) Ltd | Jul 2023 - Sep 2023  |
| • Intern Software Engineer - SriLanka Telecom PLC           | 2022 Nov - 2022 May  |

### SKILLS AND TECHNOLOGIES

- **Programming Languages & Frameworks:** Java (Spring Boot, Spring Security)PHP (Laravel), JavaScript (React, Angular), Python (FastAPI, OpenAI/ML), HTML5, CSS, XML, JSON
- **Databases:** PostgreSQL, MySQL, Database schema design & query optimization
- **Cloud & DevOps:** AWS S3, Docker, Cloudflare, CI/CD practices
- **Tools & Technologies:** Bootstrap, Tailwind CSS, CSS, JWT Authentication, Git, GitHub, Pytest(for testing)
- **Soft & Analytical Skills:** Client Collaboration, Technical Mentoring, Logical Thinking, Attention to Detail, Problem Solving, Requirements Analysis
- **Methodologies:** Agile / Scrum, MVC architecture, Test-driven development
- **Academic Focus Areas:** Software Engineering, Algorithms, Blockchain, Machine Learning(Ensemble models)

### PROFESSIONAL EXPERIENCE

- |   |                               |
|---|-------------------------------|
| <b>Software Engineer - Unitec Software Solutions</b>  | <b>April 2025 - July 2025</b> |
| <ul style="list-style-type: none"><li>• Led full-stack development of cloud-based Restaurant Management System using Laravel/PostgreSQL</li><li>• Architected database schema</li><li>• Mentored 2 junior developers in MVC architecture and Agile practices</li></ul>  |                               |
| <b>Associate Software Engineer - Zuse Technologies (Pvt) Ltd</b>  | <b>Dec 2023 - Nov 2024</b>    |
| <ul style="list-style-type: none"><li>• Enhanced Lyceum Campus with AWS S3 integration and Cloudflare security</li><li>• Developed Angular/PHP features for Lyceum Placements improving UX efficiency</li><li>• Maintained Lyceum Assessments (React/Laravel) optimizing system performance</li><li>• Managed client requirements using Scrum methodology with detailed WBS</li></ul> |                               |

### **Intern Software Engineer - Databox Technologies (Pvt)**

**Jul 2023 - Sep 2023**

- Built authentication systems using Angular/NestJS
- Engineered custom ChatGPT training pipeline with Python/OpenAI embeddings

### **Intern Software Engineer - SriLanka Telecom PLC**

**2022 Nov - 2022 May**

- Developed secure auth services (Python/FastAPI) with encryption/hashing
- Created pytest test suites improving code coverage by 30%
- Built dataset generator for ML training

## **EDUCATION**

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### **M.Sc. in Computer Science**

University of Sri Jayewardenepura | 2025 - Present

- Focus Areas: Software Engineering | Algorithms

### **B.Sc. in Information Technology**

Sri Lanka Institute of Information Technology | 2020 - 2024

- Key Modules: Object-Oriented Programming (Java), Database Systems (PostgreSQL Query Optimization), Software Engineering (Agile/Scrum, CI/CD)
- Thesis: "SMART TEA: ML System for Sales Prediction" (Random Forest, 89% Accuracy)
- Awarded: BSCTI 12144 | Reg: IT20244866

## **PROJECTS**

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### **Java Inventory System (In Progress) - Spring Boot · JWT · Docker**

- Building REST APIs for product/category CRUD operations
- Implementing role-based access control with Spring Security
- Containerizing application for cloud deployment

### **Restaurant Management System - Laravel · PostgreSQL ·**

Unitec Software Solutions

- Developed cloud-based SaaS supporting 100+ restaurants
- Implemented real-time order queue reducing wait time by 25%

### **SMART TEA Prediction System - Python · Random Forest**

SLIIT

- Engineered ML model with 89% sales prediction accuracy
- Identified 7 key pricing factors through feature analysis

## **REFERENCE**

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### **Navindu Madanayaka**

Software Engineer

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### **Mrs. W.P.K Rasika Sammani**

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