

# JAYANITHYA MADHUSHANI

## SOFTWARE ENGINEER

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### PROFILE

A responsible, self-motivated, and dedicated individual with strong leadership qualities, eager to take on challenges and deliver impactful results. Passionate about contributing to meaningful projects, continuously learning, and exploring both existing and emerging technologies in the field of Information Technology.

### EXPERIENCE

#### Application Support Engineer, Richard Pieris Group IT

June 2025 – Present

- Provide application support and troubleshoot system issues to ensure smooth business operations.
- Develop, modify, and deploy business reports using iReport / JasperReports.
- Write and optimize SQL queries to support reporting and data analysis.
- Perform manual testing to validate new features, bug fixes, and report accuracy.
- Collaborate with development and QA teams to resolve issues and implement enhancements.
- Monitor application performance, manage user access, and handle incident escalations.
- Document technical procedures and create user guides for business users.

#### Associate Software Engineer , X-ONT Software (Pvt) Ltd

July 2024 – September 2024

- Enhanced core product components using ASP.NET and Angular, ensuring alignment with business requirements.
- Developed new features and optimized system performance through code refactoring and database tuning.
- Improved user experience by redesigning UI workflows and implementing responsive design.
- Managed MS SQL Server databases and generated business intelligence reports via Crystal Reports.
- Collaborated with teams to troubleshoot technical issues and reduce system downtime.

#### Software Development Intern , X-ONT Software (Pvt) Ltd

January 2024 – June 2024

- Maintained and enhanced legacy components using ASP.NET, implementing feature upgrades and bug fixes.
- Developed responsive UI modules with Angular and optimized MS SQL scripts for efficient data operations.
- Supported Crystal Reports integration and agile sprint deliveries to meet project deadlines.

### PROJECTS

#### LeafLink - Blockchain Tea Supply Chain

- A blockchain platform for managing tea supply-chain workflows, enabling Farmers, Transporters, and Buyers to track and manage production, transport, and sales efficiently.
- Contribution - UI design & frontend development, Blockchain network & smart contracts, Workflow implementation & data tracking

Technologies: Hyperledger Fabric, Docker, Redis, NextJS, NodeJS, Tailwind CSS

Repository: [github.com/Jayanithyaa/LeafLink](https://github.com/Jayanithyaa/LeafLink)

#### Multi-dimensional course analytics dashboard

- A multi-dimensional analytics dashboard for tracking and visualizing course performance across students, instructors, courses, and campuses.
- Contribution - Frontend & UI development, Backend & API integration, AI/ML model fine-tuning and predictive analysis model develop

Technologies: ReactJS, Tailwind CSS, Google Colab, HuggingFace, Python, FastAPI

Repository: [github.com/Jayanithyaa/Multi-dimensional-course-analytics-dashboard](https://github.com/Jayanithyaa/Multi-dimensional-course-analytics-dashboard)

#### Learning Management System

- A full-featured Learning Management System enabling course creation, enrollment, progress tracking, and role-based access for Students, Educators, and Admins.
- Contribution - Frontend & UI development, Backend & API integration, Database design

Technologies: ReactJS, ExpressJS, NodeJS, Tailwind CSS, Clerk Auth, MongoDB

Repository: [github.com/Jayanithyaa/Learning-Management-System](https://github.com/Jayanithyaa/Learning-Management-System)

#### Job Portal

- A dynamic job portal connecting job seekers and employers, featuring seamless job search, posting, and secure authentication for efficient hiring and application management.
- Contribution - Frontend & UI development, Backend & API integration, Database design

Technologies: ReactJS, ExpressJS, NodeJS, Tailwind CSS, Clerk Auth, MongoDB

Repository: [github.com/Jayanithyaa/MERN-JobPortal](https://github.com/Jayanithyaa/MERN-JobPortal)

## IT Quality Assurance Project

- This project provides a comprehensive automated testing solution for verifying both API and UI functionalities of web applications through organized and reusable test suites.
- Contribution - Designing the project structure, Creating and organizing test suites, Writing all test scripts, Configuring testing and reporting setup, Managing the overall implementation of the project.

Technologies: Playwright, Cucumber, JavaScript, Node.js, npm, HTML, Gherkin

Repository: [github.com/Jayanithyaa/ITQA\\_Project](https://github.com/Jayanithyaa/ITQA_Project)

## CERTIFICATIONS AND BADGES

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- **Coursera** - ASP.NET Core Foundation (2023)
- **CODL University of Moratuwa** - Web Design for Beginners (2023)
- **CODL University of Moratuwa** - Python for Beginners (2023)
- **Sololearn** - Introduction to HTML (2023)
- **Oracle** - DevOps Foundations (2025)
- **Linux Foundation** - Introduction to Linux (2025)

## TECHNOLOGIES

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- **Languages:** Python, Java, C, JavaScript, TypeScript, C#, CSS, HTML5, PHP
- **Operating Systems:** Windows Server, Linux
- **Networking:** TCP/IP, DNS, Firewalls
- **Frameworks:** ReactJS, NodeJS, NextJS, DotNet, Angular, TailwindCSS, FastAPI
- **Databases:** MySQL, Microsoft SQL Server, MongoDB, PostgreSQL
- **DevOps:** Docker, Git, Github
- **IDEs:** Visual Studio, Visual Studio Code, CLion, IntelliJ IDE, NetBeans
- **Other:** Microsoft Office Suite, Blender, Figma, Jira, PhotoShop, Premiere Pro

## EDUCATION

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### University of Moratuwa

2021 - 2025

BSc. (Hons) in Information Technology and Management

- GPA: 3.1/4.2
- **Coursework:** Data Structures and Algorithms, Computational Theory, statistical methods

### Central College ,Kekirawa

2006 - 2019

- GCE Advanced Level: Commerce Stream | ICT-A, Accounting-A, Econ-A | District Rank 05
- GCE Ordinary Level: 8 Distinction Passes & 1 Credit Pass

## VOLUNTEERING AND LEADERSHIP

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- Designer at SEDS Mora
- Designer at UoM INTECS
- Video Editor at Rotaract Club of University of Moratuwa
- Graphic & Video Designer at Visual Room
- Senior Prefect, Central College Kekirawa (2018 - 2019)
- Junior Prefect, Central College Kekirawa (2016 - 2018)
- Batch Representative, Faculty of Information Technology (2nd Year)

## REFERENCES

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### Mr. B.H. Sudantha

Dean

Faculty of Information Technology

University of Moratuwa

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