

# Thakshi Rajapaksha

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## ABOUT ME

Motivated Computer Engineering graduate with a strong foundation in system infrastructure, networking, and cloud technologies. Skilled in troubleshooting, system administration, and team collaboration, with a keen interest in optimizing IT environments. Eager to contribute to designing, maintaining, and improving reliable system operations in dynamic tech environments.

## EDUCATION

<b>University of Sri Jayewardenepura</b> , BSc Engineering (Hons) in Computer Engineering	2021 – 2025
<ul style="list-style-type: none"><li>• Minor: Data Management   CGPA: 3.45/4.00</li></ul>	
<b>Rathnavali Balika Vidyalaya, Gampaha</b>	2010 – 2019
<ul style="list-style-type: none"><li>• G.C.E. A/L (Physical Science): AAB</li><li>• G.C.E. O/L: 9A</li></ul>	

## EXPERIENCE

<b>Intern Engineering</b> , Creative Technology Solutions (PVT) LTD (Creative Software)	Apr 2024 – Oct 2024
<ul style="list-style-type: none"><li>• Worked closely with the development team to test and debug web applications, improving system reliability and performance.</li><li>• Designed, implemented, and executed manual/automated test cases using tools such as <b>Postman</b>, <b>Selenium</b>, <b>Cucumber Studio</b>, <b>JIRA</b>, and <b>Bamboo</b>.</li><li>• Developed test scripts in <b>Python</b>, enhancing version control (Git), debugging, CI/CD pipeline integration, and documentation practices.</li><li>• Gained hands-on experience with the <b>Software Development Lifecycle (SDLC)</b> and Agile workflows.</li></ul>	
<b>Data Processing and Analyzing Associate</b> , Adelanka (PVT) LTD – 305 R. A. De Mel Mawatha, Colombo	Oct 2019 – Dec 2020
<ul style="list-style-type: none"><li>• Involved in data processing and analysis by managing cue sheets attached to the production department.</li><li>• Ensured data accuracy and timely delivery to support production schedules.</li></ul>	

## PROJECTS AND RESEARCHES

<b>Building a Data Lake Using Camera Footage (Final Year Project)</b>	Nov 2024 – Jul 2025
<ul style="list-style-type: none"><li>• Contributed to developing a scalable data lake for camera footage metadata processing and storage.</li><li>• Applied object detection techniques and researched custom dataset creation using Google Street View for accurate vehicle geo-localization.</li><li>• <b>Tech Stack:</b> Python, Flask, YOLO, ByteTrack, Swin Transformer, OpenCV, Supervision, PyTorch, Docker, Elasticsearch, Kibana, Spark, Hadoop, MinIO</li></ul>	
<b>Attendance and Payroll System (Distributed Systems Project)</b>	Mar 2025 – Jul 2025
<ul style="list-style-type: none"><li>• Implemented Attendance service and designed PostgreSQL database schema.</li><li>• Contributed to microservices architecture by developing API Gateway and Service Discovery.</li><li>• Deployed application using Docker for containerization.</li><li>• <b>Tech Stack:</b> Java, Spring Boot, PostgreSQL, REST API, Postman (API Testing), NGINX (API Gateway), Eureka (Service Discovery), Docker</li></ul>	
<b>Leave Management System Development</b>	Apr 2025 – May 2025
<ul style="list-style-type: none"><li>• Developed a Windows Forms-based leave management system with secure authentication and role-based access.</li></ul>	

- Applied OOP principles for modularity and maintainability.
- **Tech Stack:** C#, .NET Framework (Windows Forms), SQL Server

### Hospital Referral Management System Development

Apr 2024 – Oct 2024

- Designed and implemented a hospital referral system with secure API routes, patient and referral data management, and real-time notifications.
- Created an intuitive dashboard and presented with technical demo, architecture diagram, and documentation.
- **Tech Stack:** Next.js, TypeScript, Prisma ORM, MySQL, MinIO, Knock, TailwindCSS

### Hope (Mobile Application)

Jul 2023 – Nov 2023

- Developed a secure social media platform connecting help seekers and donors for charity purposes.
- Contributed to frontend development, database handling, and messaging functionalities.
- **Tech Stack:** Flutter, Dart, Firebase Storage, Firestore, MySQL, Git, Figma

### Aduwa (Mobile Application)

Jul 2023 – Nov 2023

- Developed a university food ordering application that recommends meals based on user preferences and availability.
- Integrated Google Maps API for location-based functionality.
- **Tech Stack:** Flutter, Dart, Python, MySQL, Google Cloud Platform, Firebase, Docker, Git

## RELEVANT SKILLS

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**Programming Languages and Databases:** C++, Python, C#, Java, Dart, HTML, CSS, TypeScript, SQL (MySQL, PostgreSQL, MS SQL Server)

**Frameworks:** React, Next.js, Spring Boot, Flutter, Flask, .NET, Selenium

**Tools and Technologies:** Google Cloud Platform, Firebase, WEKA, MATLAB, Git/GitHub, Figma, Docker, Postman, Bamboo, Linux, Wireshark

## EXTRACURRICULAR ACTIVITIES

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**Aesthetic Activities:** Dancing

**Leadership:** Senior Prefect (Rathnavali Balika Vidyalaya)

**Member:** Toastmasters Club (Siyane)

## CERTIFICATIONS AND COMPETITIONS

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**Python Programming (Beginner to Advanced):** University of Moratuwa (CODL)

**Supervised Machine Learning:** Coursera | Stanford

**AI/ML Engineer - Stage 1:** SLIIT

**Problem Solving (Basic):** HackerRank

**Real Hack 5.0 - JSquad:** University of Kelaniya

**Robofest - 2022:** SLIIT

## LANGUAGES

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**Sinhala:** Native

**English:** Advanced

## REFEREES

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**Dr. Udaya Wijenayake**

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Faculty of Engineering

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