

PASAN RAMYANATH

COMPUTER SCIENCE AND TECHNOLOGY UNDERGRADUATE

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SUMMARY

Motivated Computer Science Undergraduate with a strong foundation in **software development, artificial intelligence, cloud infrastructure, and embedded systems**. Oracle Cloud Infrastructure 2025 Certified Developer and DevOps Professional with proven expertise in building and deploying **full-stack applications** across multiple cloud platforms. Recognized as a **fast learner** and **highly adaptable** individual who quickly grasps new technologies and thrives in dynamic environments. Skilled in delivering **end-to-end solutions** from concept to deployment, with a passion for continuous learning and contributing to innovative, real-world projects.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, PHP, C, C++, Kotlin

Frontend Technologies: React, Tailwind CSS, Bootstrap, Material UI, Shadcn UI, Jetpack Compose, HTML5, CSS3

Backend Technologies: Node.js, Express.js, Django, Flask, Django REST Framework, Java Spring

Databases: MySQL, PostgreSQL, MongoDB, SQLite, Firebase, Room Database

Cloud & DevOps: Oracle Cloud Infrastructure, Azure, AWS, Docker, Git, GitHub

AI/ML Technologies: TensorFlow, TensorFlow.js, PyTorch, OpenCV, NumPy, Pandas, Matplotlib

Other: REST APIs, Microservices, Embedded Systems, Unity VR, 3D Game Development

EDUCATION

Bachelor of Science (Honors) in Computer Science & Technology

Uva Wellassa University of Sri Lanka

Sept 2022 – Expected Sept 2026

CGPA: 3.94 / 4.0

G.C.E. Advanced Level (Combined Mathematics Stream)

Sivali Central College, Ratnapura

Jan 2016 – Aug 2018

1B, 2C's

G.C.E. Ordinary Level

Sivali Central College, Ratnapura

Jan 2014 – Jan 2016

9A's

RESEARCH

Implementing Spiking Neural Networks on ARM Architecture

Nov 2025 – Present

Python, TensorFlow, PyTorch, NVIDIA Jetson Nano, Embedded Systems

- Investigating the **feasibility of deploying energy-efficient SNNs** on ARM-based embedded systems.
- Benchmarking **SNNs against ANNs** on NVIDIA Jetson Nano evaluating accuracy, latency, and energy usage.
- Optimizing models through **software, OS, and runtime-level techniques** for edge devices.

CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified DevOps Professional – Oracle (2025)

Oracle Cloud Infrastructure 2025 Certified Developer Professional – Oracle (2025)

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate – Oracle (2025)

Oracle AI Vector Search Certified Professional – Oracle (2025)

Oracle Certified Professional, MySQL 8.0 Database Administrator – Oracle (2025)

MySQL Implementation Certified Associate – Oracle (2025)

Introduction to Jenkins – The Linux Foundation (2025)

GitHub Foundations – DataCamp (2025)

AI/ML Engineer - Stage 2 – CODE, SLIIT University (2025)

AI/ML Engineer - Stage 1 – CODE, SLIIT University (2025)

Introduction to Java Programming: Fundamental Data Structures and Algorithms – UC3Mx (2023)

Python Programming – CODL, University of Moratuwa (2022)

Web Design for Beginners – CODL, University of Moratuwa (2022)

Getting Started with Storage – AWS Educate (2025)

PROJECTS

Seagrass Sri Lanka  Live Website	05/2025 – 09/2025
<i>HTML, CSS, Javascript, Python, React (Vite), Django, Flask, PostgreSQL</i>	
<ul style="list-style-type: none">– Developed a Centralized Web Platform as a hub for the "Seagrass Interest Group of Sri Lanka".– Implemented AI-Driven Tools including a Seagrass Identification tool and an AI blog generator.– Built community engagement features: event calendar, media/research archive, interactive 3D game, & online store.	
Harmonic Campus 	11/2025 – Present
<i>HTML, CSS, JavaScript, React, Node.js, Express, MongoDB, Firebase Auth</i>	
<ul style="list-style-type: none">– Developed an AI-powered music education platform (MERN stack) for subscription-based courses.– Integrated a TensorFlow.js AI practice tool for real-time feedback.– Implemented Azure Blob Storage for uploads and PayHere for secure payments.	
QuantumPrint (Windows) 	10/2025 – 11/2025
<i>C++, QT 6</i>	
<ul style="list-style-type: none">– Developed a Windows service to bypass printer drivers and enable manual duplex printing.– Added a time-based licensing mechanism for limited use.	
OnTime (Android) 	01/2025 – 03/2025
<i>Kotlin, JetpackCompose, Room Database</i>	
<ul style="list-style-type: none">– Built a native Android app for managing university schedules.– Implemented reminders with countdown timers and local notifications.– Used offline-first architecture with Room Database for persistent storage.	
Estate Ease 	05/2024 – 09/2024
<i>HTML5, CSS, JavaScript, PHP, MySQL, Bootstrap</i>	
<ul style="list-style-type: none">– Created a property platform with mapping, bidding, and payment features.– Built an admin panel for ad moderation and payment gateway integration.	

SOFT SKILLS

Problem-Solving, Communication, Critical Thinking, Teamwork, Adaptability

EXTRACURRICULAR

UWU EXPO 2025 – Led a 10 member team while being the designer and developer of a VR project

Music Circle (UWU) 2023-2025 – Lead Guitarist

ADDITIONAL INFORMATION

Languages: English (Proficient), Sinhala (Native)

Soft Skills: Problem-Solving, Critical Thinking, Teamwork, Communication, Adaptability

Interests: AI/ML engineering, Software Development, DevOps Engineering, Performing Music

REFERENCES

Dr. K.P.P.S. Pathirana

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