

PASAN RAMYANATH

COMPUTER SCIENCE AND TECHNOLOGY UNDERGRADUATE

+94 71 066 2344 | pjramyanath@gmail.com | pasanramyanath.dev
linkedin.com/in/pasan-ramyanath | github.com/PasanRamyanath

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 <i>Uva Wellassa University of Sri Lanka</i>	Sept 2022 – Expected Sept 2026 CGPA: 3.94 / 4.0
G.C.E. Advanced Level (Combined Mathematics Stream) <i>Sivali Central College, Ratnapura</i>	Jan 2016 – Aug 2018 1B, 2C's
G.C.E. Ordinary Level <i>Sivali Central College, Ratnapura</i>	Jan 2014 – Jan 2016 9A's

RESEARCH

Implementing Spiking Neural Networks on ARM Architecture  <i>Python, TensorFlow, PyTorch, NVIDIA Jetson Nano, Embedded Systems</i>	Nov 2025 – Present
---	--------------------

- 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

HTML, CSS, Javascript, Python, React (Vite), Django, Flask, PostgreSQL

- 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

HTML, CSS, JavaScript, React, Node.js, Express, MongoDB, Firebase Auth

- 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

C++, QT 6

- 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

Kotlin, JetpackCompose, Room Database

- 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

HTML5, CSS, JavaScript, PHP, MySQL, Bootstrap

- 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

Senior Lecturer

Department of Computer Science & Informatics

Uva Wellassa University of Sri Lanka

suneth@uwu.ac.lk

+94 77 777 7682

Mr. M.A.S. Iddamalgoda

Senior Software Engineer

Arrowtail Precision Pty Ltd

Thornton NSW 2323, Australia

amila.iddamalgoda@arrowtail.com

+61 466 267 299

FIND ME ONLINE



LinkedIn

pasan-ramyanath-b742031b5



GitHub

PasanRamyanath