PAMALJITH RANASINGHE

Senior Software Engineer

Colombo, Sri Lanka | +94 76 241 2083 | pamalranasinghe464@gmail.com | www.linkedin.com/in/pamal-ranasinghe| https://github.com/Pamal-Ranasinghe

PROFESSIONAL SUMMARY

Software engineer with 5+ years of experience building full-stack systems and, more recently, AI platforms where coding agents work alongside people. Comfortable across backend architecture, APIs, cloud, and agentic engineering with MCP servers and agent skills. Enjoys untangling complex problems, asking the right questions before writing code, and turning rough ideas into systems that are simple to maintain. Curious and dependable, and thrives in teams that share knowledge openly and learn together.

AREAS OF EXPERTISE

- Backend Engineering & API Development (REST, GraphQL, Microservices)
- Full-Stack Web Application Development (Laravel, React, FastAPI, Flask, Spring Boot)
- Programming Languages: PHP, Java, Python, JavaScript
- Software Architecture & System Design
- Database Design, Optimization & Performance Tuning (MySQL, PostgreSQL, MongoDB)
- Cloud Computing & DevOps (AWS, Docker, CI/CD, Linux, Deployment Automation)
- Security, Authentication & Data Protection
- Subscription Systems & Payment Gateway Integration
- Agile Software Development & Scrum Practices
- Testing, Debugging & Code Reviews
- Translating Business Requirements into Technical Solutions
- AI Agents & Agentic Engineering (MCP Servers, AI Agent Skills)
- LLM Integration & Prompt Engineering
- Strong Understanding of OOP, SOLID Principles & Design Patterns

WORK EXPERIENCE

Software Engineer (Full-Stack) | 2026 - Present
Limark Technologies, Colombo, Sri Lanka

- Build "Spine," a governed AI engineering platform where SME (Subject Matter Expert) labelled golden sets act as both specification and CI/CD regression gate, with auditable human approvals and shared guardrails and evaluation.
- Designed and built the Spine MCP server (Python FastMCP) and authored reusable agent skills (SKILL.md), enabling AI coding agents such as Claude Code to retrieve approved golden sets and apply them while building and reviewing code.
- Defined the golden-set schema and validation rules, and engineered LLM prompts that derive use cases from ingested business documents.
- Helped define the initial project architecture.
- Built FastAPI and MongoDB services on AWS (Lambda, S3) and contributed to the React portal.

Software Engineer (Full-Stack) | 2024 - 2026
Creative Software (Creative E-Learning), Colombo, Sri Lanka

- Architect end-to-end full-stack solutions, owning backend system design (Laravel) and integrating frontend (React) components.
- Design scalable, modular backend architecture with a clean, maintainable, and reusable code structure.
- Develop, test, and maintain secure RESTful and GraphQL APIs, and build reusable middleware for authentication, authorization, multi-tenancy, logging, and error management.
- Apply industry-standard design patterns and best practices to improve code quality, testability, and long-term system stability.
- Optimize database schemas, queries, and application performance to support high availability and growing user demand.
- Manage AWS cloud infrastructure (EC2, S3) and deployments; collaborate in Agile sprints, participate in code reviews, and mentor junior developers.
- Designed and delivered a scalable backend architecture from the ground up, improving long-term maintainability and development efficiency.
- Improved system and API performance through query optimization and code refactoring, enhancing stability under increasing traffic.

- Built reusable core services and middleware using proven design patterns, delivering multiple full-stack features on schedule for a gamified learning platform.

Associate Software Engineer | 2022 - 2024
Wijeya Newspapers Ltd, Colombo, Sri Lanka

Trainee Software Engineer | 2022
Global Edulink, Colombo, Sri Lanka

Trainee Software Engineer | 2021
Binary Technologies International, Colombo, Sri Lanka

INDUSTRIAL PROJECTS

- **Layup - Gamified Learning Platform (getlayup.com):** Full-stack feature development, backend enhancements, and performance optimization.
- **Daily Mirror Online (dailymirror.lk):** Premium feature modules, subscription logic, user access control, and payment integration.
- **Hitad Print / HitAd (print.hitad.lk):** Application functionality development, system improvements, and feature delivery.
- **Subscription.lk (subscription.lk):** Development and integration of subscription-based e-commerce components.
- **One Training (1training.org):** Design and implementation of core modules for a learning management platform.
- **CPD Certification Service (cpduk.co.uk):** Backend development, feature enhancements, and API-based service integrations.
- **Zap Mail (zapmail.ai):** Backend logic and service architecture using Python and Flask for automated mail workflows.

EDUCATION

MSc in Artificial Intelligence | 2026 - Present - University of Moratuwa, Sri Lanka

BSc (Hons) in Information Technology - Software Engineering | 2023 - Sri Lanka Institute of Information Technology (SLIIT), Sri Lanka

CORE SKILLS

- Problem-Solving - analyzing complex challenges and delivering practical, effective solutions
- Time Management & Working Under Pressure - meeting deadlines in fast-paced environments
- Verbal Communication - engaging effectively with individuals across diverse cultures
- Collaboration & Teamwork - working effectively within cross-functional teams
- Leadership - guiding, influencing, and mentoring individuals and teams
- Reliability - consistently dependable as a team member and contributor

LANGUAGE PROFICIENCY

English - Professional Proficiency | Sinhala - Native Proficiency

RESEARCH AND PUBLICATION

E-Learning Assistive System for Deaf and Mute Students - Teaches educators how to instruct deaf and mute students using an inbuilt whiteboard, a face position detection model, and speech-to-sign-language conversion.

Published: https://ieeexplore.ieee.org/document/10025212

REFERENCES

Mr. Clyde Casiechitty
Senior Project Manager cum Solutions Architect, Creative Software, 413 R. A. De Mel Mawatha, Colombo
Email: clyde@creativesoftware.com | **Phone:** +94 77 734 9404

Ms. Imanka Kodithuwakku
Lead Technical Consultant, Creative Software, 413 R. A. De Mel Mawatha, Colombo
Email: imanka.kodithuwakku@gmail.com | **Phone:** +94 77 350 6848