

Pruthuvi Kodagoda

FULLSTACK ENGINEER | AWS CERTIFIED

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GitHub – github.com/PruthuviKGA

Portfolio – pruthuvi-kodagoda.vercel.app

Profile Summary

Self-motivated and technically skilled software engineering undergraduate with comprehensive hands-on experience in full-stack development and Agile SDLC environments. A fast learner with a strong ability to quickly adapt to new programming languages, tools, and frameworks. Passionate about solving complex problems, collaborating in diverse teams, and exploring innovative solutions through cutting-edge research and emerging technologies.

Work Experience

Software Engineer Intern

Jan 2024 – Aug 2024

Xeptagon (Pvt) Ltd, Colombo, Sri Lanka

- Contributed to 4+ full stack development projects involving UI/UX design, frontend and backend development, ensuring alignment with client requirements
- Integrated and maintained RESTful APIs for seamless communication between frontend and backend systems
- Specific project details are not disclosed due to company confidentiality policy
- Demonstrated strong technical proficiency, adaptability to evolving project needs, and effective collaboration within cross functional teams
- Worked with 10+ modern technologies and tools, including React, Nest.JS, PostgreSQL, SPFx, Docker, Jira and Figma

Education

BSc (Hons) Information Technology

Jun 2021 – Present

University of Moratuwa, Sri Lanka

Major: Full Stack Development | Minor: Machine Learning

Current GPA – 3.52 (Up to Level 4 Semester 1)

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|-------------------|-------------------|
| • L1S1 SGPA : 3.7 | • L1S2 SGPA : 3.4 |
| • L2S1 SGPA : 3.8 | • L2S2 SGPA : 3.6 |
| • L3S1 SGPA : 3.3 | • L4S1 SGPA : 3.5 |

Core Competencies

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|---|---|
| • Java, C#, JavaScript, TypeScript, Python, C | • MSSQL, MySQL, PostgreSQL |
| • React, Angular, SCSS, HTML, CSS, SPFx | • Figma, Bootstrap, Material UI, Ant Design |
| • .NET Core, Nest.JS, RESTful APIs | • Docker, AWS, CI/CD |
| • GitHub, Jira, Agile | • VSCode, Visual Studio, NetBeans, IntelliJ |

Projects

Automated Step-By-Step Visual Performance Guide Generation from Sinhala Demonstration Videos

Aug 2024 – Present

Final year Research Project

- Developed a system to automatically generate visual performance guides from Sinhala demonstration videos
- Enabled viewers to quickly grasp key information through synchronized text and image content
- Role: Visual Content Extraction and Alignment (Responsible for Module 3)
- Technologies used: Python, YOLO, OpenCV

Wine Quality Prediction System

Nov 2024 – Dec 2024

Machine Learning Project

- Developed a machine learning model to predict wine quality (rated 1–10) based on physicochemical properties and wine type (red/white)
- Performed data preprocessing, feature engineering, and applied cross-validation with multiple algorithms
- Achieved 91.69% accuracy using Random Forest, with validation through test predictions and visual metrics like the confusion matrix
- Role: ML Developer
- Technologies used: Python, Scikit-learn, Pandas, NumPy, Matplotlib

Library Management System

Oct 2024 – Dec 2024

UI and API Testing Project

- Designed and 50+ maintained automated test suites for website UI and backend APIs
- Ensured functionality, performance, and security through rigorous testing
- Integrated continuous reporting using GitHub Actions within a CI/CD pipeline
- Role: Conducted backend API testing & generated Allure reports using CI/CD pipeline
- Technologies used: Postman, GitHub Actions

Procurement Workflow Management System

Jun 2022 – Jun 2023

Level 2 Software Project

- Contributed to the development of a comprehensive Procurement Management System
- Led the frontend development, creating an intuitive user interface with modern styling and seamless functionality
- Established and managed 15+ API integrations to ensure real-time data synchronization between frontend and backend
- Assisted in developing robust backend components, including database models, controllers, and services, with a focus on performance optimization
- Role: Full Stack Developer
- Technologies used: React.JS, .NET Core, MSSQL, Material UI

Jam Cheese Applicator (Microcontroller Based)

Jun 2021 – Jun 2022

Level 1 Hardware Project

- Designed a system to evenly apply spreads like butter, jam, or cheese on bread slices, detecting empty spread or bread containers and alerting the user
- Developed as a real-world automation challenge to enhance problem-solving and engineering skills
- Role: System Designer & Implementation Engineer

- Technologies used: C Language, Atmel Studio, Proteus Simulation, KiCad

Certificates

AWS Cloud Practitioner Essential	May 2025
AWS Training and Certification	
Angular Essential Training	May 2025
LinkedIn	
Docker Foundations Professional Certificate	May 2025
Docker Inc	
Introduction to Prompt Engineering for Generative AI	May 2025
LinkedIn	

Awards

Code Rush 2022 - MERIT ACHIEVERS (Team Architects)	Oct 2022
Organized by INTECS, University of Moratuwa	

Publications

Use of Artificial Intelligence in the Automobile Industry	Apr 2025
Authors : K. G. A. P Dilshan & K. A. D. T Kulawansa	
Accepted and presented at the 9th International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2025), held on 6th April 2025 in Bangkok, Thailand. This paper focused on AI applications in the automobile industry, examined current challenges, and proposed future directions with practical suggestions, emphasizing ethical, security, and sustainability considerations.	