Pruthuvi Kodagoda

FULLSTACK ENGINEER | AWS CERTIFIED

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LinkedIn – linkedin.com/in/pruthuvi-kodagoda/

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 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, NestJS, PostgreSQL, SPFx, Docker, Jira and Figma

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Education

BSc (Hons) Information Technology   **Jun 2021 – Present**

University of Moratuwa, Sri Lanka

Major: Full Stack Engineer | Minor: Machine Learning Engineer

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

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

Core Competencies

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

Projects

Online Car Rental System   **May 2025 – Jun 2025**
Backend Project

- Built RESTful API for car rental management with secure user registration, role-based access, and rental workflows
- Implemented secure JWT authentication and authorization to manage admin/user access and protect endpoints
- Ensured data integrity and relational mapping using MSSQL with code-first migrations, and containerized the backend with Docker for seamless development and deployment
- Role: Backend Developer
- Technologies used: .NET Core, MSSQL, Entity Framework Core, JWT, Docker, Swagger

Automated Step-By-Step Visual Performance Guide Generation from Sinhala Demonstration Videos   **Aug 2024 – Aug 2025**
Final year Research Project

- Developed a fully automated system to generate stepwise visual guides from Sinhala cooking videos, integrating tool and ingredient detection with action recognition
- Enabled clear and concise English instruction generation by combining detected cooking actions and ingredients from videos
- Role: Visual Content Extraction and Alignment (Responsible for Module 3)
- Technologies used: Python, YOLOv8, Roboflow, 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

- Led frontend development, delivering an intuitive UI 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: ReactJS, .NET Core, MSSQL, Entity Framework Core, Material UI

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.