

# Pruthuvi Kodagoda

## FULLSTACK ENGINEER | AWS CERTIFIED

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GitHub – [github.com/PruthuviKGA](https://github.com/PruthuviKGA)

Portfolio – [pruthuvi-kodagoda.vercel.app](https://pruthuvi-kodagoda.vercel.app)

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### 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.

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### 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)

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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 |

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### Core Competencies

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

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## 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 – 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

- 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: ReactJS, .NET Core, MSSQL, Entity Framework Core, Material UI

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## Certificates

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

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## Awards

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

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## Publications

<b>Use of Artificial Intelligence in the Automobile Industry</b>	<b>Apr 2025</b>
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.	