

# KARTHIKEYAN V

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## PROFESSIONAL SUMMARY

Machine Learning Engineer and Cloud Developer with hands-on experience building scalable, AI-powered applications using Python, FastAPI, Docker, and cloud-native architectures. Strong background in model deployment, DevOps automation, and distributed systems, with experience delivering production-ready platforms through internships and real-world projects.

## SKILLS SUMMARY

- **Languages:** C, Java, Python, SQL, HTML
- **Frameworks & Libraries:** TensorFlow, Keras, Scikit-learn, Transformers, NLTK, SpaCy, FastAPI, Flask.
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis, Supabase, Firebase.
- **DevOps & Cloud:** Docker, Kubernetes, GitHub Actions, MLflow, AWS (SAA), Azure (AZ-104), Git, GitHub, Postman.
- **Core Concepts:** Machine Learning Pipelines, Model Deployment, RESTful APIs, CI/CD Pipelines, Microservices Architecture, Cloud-Native Applications
- **Soft Skills:** Cross-team collaboration, client interaction, technical communication.

## WORK EXPERIENCE

Euron | Data Science & ML Intern | Remote, India

Jul 2025 – Present

- Developed scalable AI workflow applications using Python, Streamlit, and RAG pipelines, integrating vector databases, Generative AI models, and REST APIs, improving system performance and response efficiency by ~40%.

Cognifyz Technologies | Web Development Intern | Remote, India

Dec 2024 – Jan 2025

- Developed and deployed responsive web applications with admin dashboards and workflow features, collaborating across teams to deliver scalable solutions for 100+ users while earning a performance-based stipend.

VM Polymers | Freelance Web Developer | Remote, India |

Sep 2025 – Nov 2025

- Deployed a production-ready booking platform with secure payment integration, database-backed persistence, analytics tracking, and cloud hosting, awarded a project prize.

## PROJECTS

CloudShell Lab

Developer & Project Manager

- Designed a cloud-native learning platform using Docker and Kubernetes to provision on-demand browser-based cloud shells, reducing manual setup time by 90%.

Job Search Assistant |

AI/Full-Stack Developer

- Designed and deployed an AI-powered career development web application using Flask, Bootstrap, and Gemini API, enabling resume analysis, ATS optimization, interview question generation, and personalized job search guidance through real-time intelligent chat.

Complete CI/CD Pipeline(Full Stack) |

- Automated an end-to-end CI/CD pipeline using Git, Jenkins, SonarQube, Docker, Kubernetes, and Argo CD for continuous integration and cloud deployment.

AWG Atmospheric Water Generator |

IoT Developer

- Engineered an IoT-based atmospheric water generator using a Peltier system producing 1–2 liters/day with live sensor monitoring and predictive performance analytics.

AWG Atmospheric Water Generator |

IoT Developer

- Built and deployed a full-stack edge–cloud server using Raspberry Pi as an edge host with Dockerized.

## CERTIFICATES

AWS Solution Architect Associate | [CERTIFICATE](#) | 2026

RHCSA (Red Hat) | [CERTIFICATE](#) | 2025

Azure Administrator Associate | [CERTIFICATE](#) | 2026

AWS CLF-C02 | [CERTIFICATE](#) | 2026

## EDUCATION

KPR Institute of Engineering Technology

Bachelor of Computer Science and Engineering; CGPA: 8.5

Coimbatore, India

Sep 2023 - Jul 2027