

ADHARSH P AJAYAKUMAR

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PROFILE SUMMARY

Software Engineer with expertise in backend and full-stack development, scalable systems, and cloud-based deployments. Adept at fostering collaboration and innovation, embodying integrity and customer-first thinking in engineering solutions. Proven ability to design, optimize, and deploy high-performance applications using Java (Spring Boot), Python (FastAPI), and JavaScript (React, Angular). Passionate about driving continuous improvement, teamwork, and ethical problem-solving in a growth-driven environment.

SKILLS

Technical Skills: Python (FastAPI, Flask), Java (Spring Boot), JavaScript (React.js, Angular), Shell Scripting, Node.js, Shell Scripting, HTML5, CSS3, RESTful API development,, PostgreSQL, MySQL, MongoDB, Microservices Architecture, Object-Oriented Programming, CI/CD (GitHub Actions), Version Control (Git), Docker, Git, Microsoft Azure, Agile, SDLC, Performance Analysis, Capacity Planning, OO Design

Soft Skills: - : Effective communication, Problem-solving, Growth mindset, Team leadership, Customer-focused development

EXPERIENCE

Junior Software Engineer

July 2024 - Present

VRD Squared Technologies

- Enhanced the payment module using Angular, improving responsiveness by 60% and execution time by 30%, ensuring detailed documentation of performance improvements.
- Collaborated with UI/UX designers and product managers to align technical implementation with business needs, drafting technical specifications for scalable solutions deployed on Microsoft Azure.

Python Developer Intern:

Jan 2023 - Mar 2023

Reverttech IT Solutions

- Worked on backend development using Python and Flask, and handled NoSQL database operations with MongoDB. Focused on building and testing REST APIs and gained practical exposure to deploying backend services.

PROJECTS

PETORIA – AI-based Pet Companion App (Python, Flutter Flow, Firebase, GPT-3): Built with Python, Flutter Flow, and Firebase. Improved chatbot accuracy by 45% using GPT fine-tuning, optimized database queries for 5,000+ users, and implemented 90%-accurate ML-based breed detection. [\[GitHub\]](#)

Employee management system(React.js, Spring boot, MySQL): Developed a full-stack Employee Management System to perform CRUD operations on employee records. Implemented RESTful APIs using Spring Boot and connected them to a MySQL database. Designed an interactive frontend with React.js for real-time data display and form-based entry.

CERTIFICATIONS

- Full-Stack Web Development – Udemy, 2025
- Azure Fundamentals Certification – Microsoft, 2025

EDUCATION

Bachelor of Technology in Computer Science

Sahrdaya College of Engineering & Technology
Thrissur, India

2020 – 2024

Academic Achievements:

- Paper Published (IEEE): Final project presented at MIT ADT Conference (2024) — demonstrated AI application in document intelligence.