Adharsh P Ajayakumar

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PROFILE

Full Stack Software Engineer with hands-on experience building scalable web applications using React.js frontend, Node.js/Python backend, and PostgreSQL/MySQL databases. Proficient in RESTful APIs, microservices architecture, Docker deployment, CI/CD pipelines, and agile development. Strong problem-solving skills with proven ability to deliver production-ready features through cross-functional collaboration.

CORE SKILLS

Frontend: React.js, JavaScript(ES6+), TypeScript, HTML5, CSS3, responsive UI
Backend: Node.js(Express), Python(FastAPI), RESTful APIs, microservices
Databases: PostgreSQL, MySQL, MongoDB, SQL optimization, data modeling
DevOps: Docker, GitHub Actions(CI/CD), Git, AWS/GCP deployment
Testing: Jest, Pytest, unit/integration testing, code reviews
Methodologies: Agile, Scrum, cross-functional collaboration

EXPERIENCE

Full Stack Software Engineer Trainee   Jul 2024 – Feb 2025
VRD Squared Technologies, Kollam, India

- Built full-stack web applications using React.js frontend and Node.js/Express + Python(FastAPI) backend with PostgreSQL/MySQL integration.
- Designed and implemented RESTful APIs, microservices, and scalable database schemas for production-ready customer-facing features.
- Deployed applications using Docker containers, GitHub Actions CI/CD pipelines, and cloud infrastructure (AWS/GCP).
- Collaborated with frontend/backend teams in agile environment, conducted code reviews, and delivered features through iterative sprints.

SELECT PROJECTS

Real-Time Pair Programming Platform
React.js, Node.js, Express, PostgreSQL, Docker, CI/CD

- Developed full-stack real-time collaboration platform with React frontend, Node.js REST APIs, and PostgreSQL backend for concurrent users.
- Implemented WebSocket integration, responsive UI, and production deployment via Docker and GitHub Actions.

AI Content Retrieval Service
Python(FastAPI), React.js, PostgreSQL, REST APIs, Docker

- Built intelligent semantic search microservice with FastAPI backend, React dashboard, and optimized PostgreSQL queries.
- Containerized deployment with CI/CD pipeline ensuring scalability and 99.9

ENGINEERING STRENGTHS

- Proven full-stack development expertise across modern JavaScript/Python stacks with strong database and DevOps foundation.
- Excellent problem-solving through data structures, algorithms, and production system optimization.
- Agile team player with cross-functional collaboration experience delivering scalable web applications.

EDUCATION

B.Tech in Computer Science and Engineering   2020 – 2024
Sahrdaya College of Engineering & Technology, Thrissur