

Shiva Karthik Rallabandi

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EDUCATION

Central Michigan University

Master of Science in Information Systems

Mount Pleasant, MI

Aug. 2024 – Dec 2025

Keshav Memorial Institute of Technology

Bachelor of Technology in Information Technology

Hyderabad, India

Aug. 2019 – May 2023

TECHNICAL SKILLS

Languages: Java, Python, C#, C/C++, SQL, JavaScript, TypeScript, HTML/CSS

Frameworks & Libraries: React, Angular, Node.js, Flask, Next.js, FastAPI, .NET, Spring Boot

Databases: MySQL, MongoDB, PostgreSQL, Redis, Firebase, Supabase

Cloud & DevOps: AWS (EC2, S3, Lambda), Azure (Functions, DevOps), Docker, Kubernetes, Terraform, Jenkins

Tools & Technologies: Git, Visual Studio, VS Code, Postman, SignalR, JWT, REST APIs, GraphQL

EXPERIENCE

Software Engineer Intern

June 2025 – Present

Strike Stock AI

Remote

- Designed and implemented scalable MySQL database schema with optimized indexing strategies, supporting high-frequency stock data operations and complex analytical queries
- Developed machine learning algorithms for stock prediction using Python, pandas, and scikit-learn, achieving 40% improvement in API response times through code optimization
- Built full-stack Streamlit applications integrating RESTful APIs, implementing real-time data visualization with WebSocket connections for live stock analytics
- Collaborated in agile development cycles, participating in sprint planning, daily standups, and retrospectives while maintaining 95% code review approval rate

Software Engineer

Jan 2023 – July 2024

Ivanti

Karnataka, India

- Architected and developed distributed ITSM microservices using C#, .NET Core, and Azure Functions, improving API scalability by 40% and reducing system crashes by 25%
- Engineered real-time Trusted Agent Feature using SignalR WebSocket connections and JWT authentication, handling 1000+ concurrent connections and reducing unauthorized access by 35%
- Automated infrastructure provisioning using Terraform and Azure Resource Manager, implementing CI/CD pipelines with Azure DevOps that reduced deployment time by 50%
- Optimized database performance by redesigning PostgreSQL schemas improving query response times by 45%
- Developed comprehensive logging and monitoring solutions using Azure Application Insights, enabling proactive issue detection and resolution
- Led code review processes and established coding standards, mentoring 3 junior developers and improving team code quality metrics by 30%
- Implemented robust error handling mechanisms, reducing production incidents by 40% and improving system reliability

PROJECTS

MedAI Diagnosis Platform | React, TypeScript, Supabase, Google Gemini API, GROQ API

Feb 2025 – June 2025

- Built full-stack healthcare AI platform with React frontend and Node.js backend, processing multimodal inputs (voice, images) with 90% diagnostic accuracy with secure authentication system using supabase
- Integrated multiple APIs (GROQ Whisper, ElevenLabs, Google Gemini) with robust error handling and fallback mechanisms, ensuring 99.5% uptime

AI-Powered Interview Scheduler | Next.js, OpenAI API, Supabase, Vapi AI

May 2025 – July 2025

- Developed end-to-end recruitment platform using Next.js and serverless architecture, reducing hiring process time by 60% through automated workflows
- Built real-time voice processing system with WebRTC and WebSocket connections, handling concurrent interview sessions with low-latency audio streaming

Azure Cost Optimization Tool | C#, .NET, Azure APIs, Terraform

Mar 2023 – May 2023

- Developed enterprise-grade monitoring application using Azure Resource Manager APIs and .NET, implementing automated cost reporting that reduced operational expenses by 20%
- Built scalable notification system with Azure Service Bus and implemented comprehensive logging with structured JSON output for enhanced debugging

ADDITIONAL INFORMATION

Methodologies: Agile/Scrum Development, Test-Driven Development (TDD), CI/CD, Microservices Architecture

Certifications: Azure Fundamentals, Agile Development Practices

Leadership: Led technical training sessions, mentored junior developers, established coding standards and best practices