

Ramachandra Yerramsetti

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Summary

Full Stack Developer with 4+ years of experience in developing applications with JavaScript, Python, and Java. Skilled in building microservices, streaming APIs with Kafka, Native mobile apps, continuous integration with Jenkins and Github Actions.

Education

University of Connecticut Master of Engineering- Computer Science and Engineering; GPA: 3.8/4.00 Coursework: Algorithms & Complexity, Advanced Computer Networks, Natural Language Processing	August 2023 - May 2025 Storrs, CT
K L University Bachelor of Engineering- Electrical Engineering; GPA: 9.0/10.00 Coursework: Object-Oriented programming (Java), Computer Architecture, Discrete Mathematics	August 2015 - May 2019 Vijayawada, India

Professional Experience

Full Stack Developer UCONN Health Python, Typescript(React Native), Django, AWS Lambda ○ Developed a native mobile application, StripLens , achieving 90% accuracy in extracting data from Lateral Flow Test kits by implementing REST APIS in Django for image processing with open-source libraries, eliminating the need for commercial APIs. ○ Designed serverless image processing pipeline using React Native(iOS ,Android) for real-time capture, FastAPI for high-performance data transmission, AWS (S3, Lambda) for secure storage and automated cleanup, optimizing storage costs by 80% by choosing storage class S3 One Zone - Infrequent Access . ○ Developed a Python automation script to call C# functions, reducing manual intervention by 80% and enabling smooth execution of 100+ daily PCR runs. ○ Refactored Bio-Rad CFX Maestro software by modifying .NET Core -based DLLs and WCF service bindings, improved logging 40%.	January 2024 - Present Hartford, CT
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Software Engineer National railway company of Belgium(SNCB) Java EE, Spring Boot, Apache Tomcat ○ Collaborated with a 5-member team to develop Excursion Ticket booking platform using JAVA EE microservices , with async processing and API rate limiting to handle traffic. ○ Implemented user management and authentication using JSON Web Token , optimized session management with Redis cache, reduced session handling time by 40%, and improved user login efficiency.	May 2022 - July 2023 Hyderabad, India
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Full Stack Developer Merck & Co.(Animal Health) Java, Microservices, Azure, REST APIs, Grafana ○ Deployed and monitored 20+ Microservices on Azure, cutting downtime by 35% using proactive alerts from Azure Application Insights ○ Led the migration of a 2TB IBM DB2 database to Azure SQL Managed Instance using SSMA, achieving a 35% improvement in query performance while adhering strict schema conversion. ○ Architected and implemented a component library for mypet.com using ReactJS with custom hooks, context API , and TypeScript interfaces, resulting in 40% code reusability across features. ○ Achieved 93% code coverage, 17% improvement over previous implementations while implementing jest unit tests and cypress E2E testing by employing Atomic design methodology	July 2019 - April 2022 Chennai, India
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Academic Projects

Gen AI Finance Tracker TypeScript(Next.JS,NodeJS), PostgreSQL, AWS Bedrock ○ Developed T5-Base integrated agent-based full-stack financial analysis platform with advanced RAG implementation ○ Integrated Financial Modeling techniques for investment analysis with intuitive visualizations for complex data	
Citi bike usage prediction at Manhattan-NYC Python, LSTM, GRU ○ Led development of hybrid RNN(LSTM+GRU) model for urban mobility forecasting, achieving 83% prediction accuracy ○ Won First Prize in NSF competition by effectively analyzing and visualizing urban mobility patterns	
Dog-Breed Detector React Native, TensorFlow, Computer Vision ○ Built full-stack mobile application with Django backend and React Native frontend ○ Optimized model for mobile deployment, reducing inference time to 2s while maintaining high accuracy	

Skills

Programming: Python, SQL, JavaScript, TypeScript, Java, Next.js, React, Node.js,
Databases: Oracle, PostgreSQL, MySQL, SQLite, MongoDB, Redis
DevOps: CI/CD, Github Actions, Terraform, Jenkins, Apache Kafka
Certifications: AWS Certified Cloud Practitioner (2024)