

JAYASHANKAR MANGINA

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Summary

Versatile Software Engineer with over 5 years of experience delivering scalable microservices and cloud-native solutions using Java and AWS. Skilled in collaborating with cross-functional teams to build robust, efficient code.

Professional Experience

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| Software Engineer, Amazon – Austin, TX | June 2024 - Present |
| <ul style="list-style-type: none">• Spearheaded the refactoring of API contracts and introduced Pydantic-based validations, leading to a 100% enhancement in data integrity across production database entries, which minimized error rates to 0.5%.• Developed a comprehensive Correction of Error (COE) document that streamlined validation processes, eliminating site entry errors entirely and enhancing data accuracy by 100% across all platforms.• Championed the design and implementation of a cutting-edge frontend solution for automating device discovery in Amazon's fulfillment centers, resulting in a 40% reduction in manual tracking time across 5000 devices. | |
| Software Engineer, Amazon Web Services – Seattle, WA | July 2022 - June 2024 |
| <ul style="list-style-type: none">• Spearheaded the development of an innovative AWS service targeting Scope-3 carbon emissions, resulting in a remarkable 60% reduction in carbon emissions across client operations.• Developed and implemented a comprehensive Integration Test Suite that enhanced test coverage to 100%, resulting in a significant reduction of post-deployment issues by 98%.• Designed and implemented an intuitive UI using AWS Cloudscape, achieving a user satisfaction score of 95%, while decreasing customer support inquiries related to data deletion processes by 60%. | |
| Software Engineer, Cognizant Technology Solutions – Chennai, India | November 2019 - Dec 2020 |
| <ul style="list-style-type: none">• Engineered and deployed scalable Spring-based backend services, enhancing application performance by 40%.• Developed dynamic user interfaces utilizing JSP, JavaScript, and AJAX, improving application load time by 40%.• Executed Maven build processes to streamline deployment workflows, achieving a 40% reduction in build time. | |

Education

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|---|---------------------|
| Master of Science in Applied Computer Science
<i>Northwest Missouri State University Missouri, USA</i> | GPA: 3.7/4.0 |
| Bachelor of Technology in Electronics and Communication Engineering
<i>Andhra University Visakhapatnam, India</i> | GPA: 3.3/4.0 |

Technical Skills

C++, C#, Java, JavaScript, Kotlin, Python, Swift, .NET, TypeScript, HTML, CSS, React, Node.js, SwiftUI, UIKit, iOS SDK, RESTful API, Jest, Cypress, XCode, DynamoDB, Firebase, MongoDB, MySQL, Postman, AWS (EC2, S3, Lambda), SQL, Kubernetes, Django, Jenkins, Git, CI/CD Pipelines, Kafka, PostgreSQL, GoLang, Design Patterns, Agile, end-to-end testing, distributed systems, Redux, MVP, Angular, Jira, Ruby, NoSQL, problem-solving, Next.js, Docker, version control

Projects

- **Community Emergency Response Team (iOS)** [[View on GitHub](#)]: Spearheaded the development of CERT, an innovative iOS app for real-time emergency response and rescue coordination, resulting in a 40% decrease in response times across multiple incidents.
- **Pic-to-Send (iOS)** [[View on GitHub](#)]: Directed a 6-member team in the design and development of a cutting-edge real-time media sharing iOS application, achieving an impressive 40% reduction in latency during file transfers.
- **Google Page-Rank Algorithm (Full-Stack)** [[View on GitHub](#)]: Directed a cross-functional team of 6 engineers in the development of an innovative PageRank algorithm utilizing Python and Apache Flink, enhancing algorithm efficiency by 40% and processing speed by 30%.