SRIRAM ATMAKURI
SOFTWARE ENGINEER
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CAREER SUMMARY

Software Engineer with 5+ years developing scalable distributed backend systems and full-stack applications using Java, Kotlin, Python, JavaScript. Expertise in AWS cloud computing, microservices architecture, Spring Boot, React.js, DevOps pipelines, Docker, Kubernetes and API development. Hands on Experience in MERN stack, database design optimization and agile Software Development Lifecycle.

EDUCATION

University of Colorado Denver — **Denver, USA**
Master of Science (M.S) – Computer Science — **Aug 2021 - May 2023**

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Dlcfl, Florida — **Jan 2025 -- Present**
- Developed applications for clinical data management using React.js, TypeScript and Node.js, containerized with Docker for seamless deployment, delivered 10% improvement in user engagement through enhanced analytics and responsive design.
- Integrated EHR systems using RESTful and GraphQL APIs with Jest testing and PostgreSQL, utilized Git for version control supporting patient billing and scheduling modules, and achieved 99.5% system uptime.

Software Development Engineer | Amazon, Seattle — **Dec 2023 -- Dec 2024**
- Architected a scalable AWS framework using Lambda, S3, DynamoDB and OpenSearch to automate purchase orders, optimized performance by 15% through ElastiCache and SQS while maintaining reliability by following cloud native design principles.
- Led security initiatives to address compliance requirements using CloudWatch monitoring and AWS Config rules, reduced vulnerability resolution time by 30% and improved system reliability by 20% through CloudTrail alerts.
- Collaborated with cross-functional teams to elevate user experience by 15%, conducting design and code reviews while implementing comprehensive JUnit, MockK testing strategies within CodePipeline workflows, and minimizing defect rates by 80%.
- Optimized backend performance using Java, Kotlin and Spring with SNS messaging, EventBridge routing, Step Functions workflows and IAM security controls, enhancing system efficiency by 15% and reducing bugs by 10%.

Web Developer | University of Colorado Denver — **Apr 2022 -- May 2023**
- Maintained university websites using HTML, CSS, JavaScript and Bootstrap, created wireframes and prototypes using Figma for UI/UX design, completed 95% of projects on-time and reduced production issues by 70% while ensuring cross-browser compatibility.
- Implemented student analytics platforms and enrollment reporting systems using SQL Server, PHP and C# for backend APIs, enhanced visualization through responsive dashboards, providing insights to 5000+ students and boosting engagement by 25%.

Software Engineer | Automate EM, India — **May 2020 -- Aug 2021**
- Engineered home automation application using C++, Python, Java and MySQL with MQTT, and achieved 90% functional test success rate through comprehensive Postman testing validation.
- Spearheaded SDLC on Linux servers using Kubernetes orchestration, Terraform deployments and Redis caching, and accelerated development time by 15% through reusable modular components architecture.
- Facilitated agile development workflows using Azure DevOps, deployed Apache Kafka with Scala for real-time event streaming and message queuing, expedited delivery cycles by 20% while maintaining 95% code quality standards.

TECHNICAL SKILLS

- **Programming Languages:** Java, Kotlin, Python, C#, C++, Ruby on Rails
- **Web Development:** React.js, Node.js, JavaScript, TypeScript, HTML5, CSS3, Bootstrap, Vue.js, Angular.js
- **Backend Technologies:** Spring Boot, REST APIs, Microservices ,Express.js, MQTT, FastAPI
- **Frameworks and Libraries:** MERN Stack, MEAN Stack, MVC Architecture, TensorFlow, AI/ML, IoT
- **Database and Storage**: MySQL, MongoDB, PostgreSQL, RDBMS, DynamoDB, Redis
- **Cloud and DevOps:** AWS (Lambda, S3, EC2, CloudWatch, SQS), Docker, Kubernetes, Azure, Jenkins, Apache Kafka
- **Testing and Tools:** JUnit, Jest, Selenium, Git, SonarQube, Postman, JIRA, Twilio

PROJECTS

Global Logistics Emission Council | Kotlin, Panther, AWS
- Designed data validation framework using AWS integrations with localization in user preferred languages, improved accuracy by 15% and ensured schema compliance for carrier emissions data supporting Amazon's carbon footprint tracking and GLEC compliance.
- Built asynchronous file processing with Lambda/SQS messaging and S3 pre-signed URLs, integrated CloudWatch monitoring, automated notification system, and IAM role security, achieving 99.9% system availability and 60% faster error resolution.

Business Management Platform | MERN Stack, Tesseract, spaCy
- Orchestrated intelligent microservices framework using Node.js Express, React and MongoDB with integrated Tesseract OCR and spaCy NLP models for automated document intelligence and smart categorization, achieving 90% accuracy through Docker containerization.
- Executed interactive dashboard with natural language search capabilities using LangChain for conversational queries, implemented automated report generation with intelligent notification system, decreasing response latency by 40%.

Smart Appliance Automation | Python, TensorFlow, IoT, MQTT
- Constructed machine learning model using TensorFlow with Deep Q Learning and LSTM algorithms, trained on user behavior data to achieve 80% accuracy in predicting appliance usage patterns for performance optimization.
- Integrated Raspberry Pi IoT sensors with MQTT/Redis data pipeline and Home Assistant automation, and configured Twilio SMS/email alerts for smart notifications and energy consumption monitoring.

CERTIFICATIONS

- **AWS Solutions Architect Certified**