

Chaitanya Varma Chekuri

Software Development Engineer II at Amazon | Generative AI Systems & Full-Stack Architecture
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Summary

Senior Software engineer specializing in production generative AI systems with 13+ years of full-stack expertise at Amazon, Best Buy, Thomson Reuters and Citi. Built multi-agent chatbot platform using AWS Bedrock achieving 60% autonomous resolution rate and serving 300M+ monthly requests. Expert in LLM orchestration, prompt engineering, and Model Context Protocol servers for agentic workflows. Delivered AI-powered debugging assistant reducing incident resolution from 8 hours to 2 hours. Track record of scaling high-throughput microservices (2M+ daily requests) and mentoring teams on AI integration patterns.

Skills

- **AI/ML Integration:** Generative AI (AWS Bedrock, Claude, Nova), Prompt Engineering, LLM Integration, Multi-Agent Systems, MCP (Model Context Protocol) servers for agentic tool capability
- **Cloud & Infrastructure:** AWS (Lambda, EC2, S3, Bedrock, DynamoDB, Cloudwatch, Cloudformation, API Gateway, SNS, Kinesis), Event-Driven Design, Microservices Architecture, Infrastructure as Code
- **Languages & Frameworks:** Java, JavaScript/TypeScript, Python, Node.js, React, Angular, Spring Boot, REST/GraphQL, Cypress
- **Data & Databases:** DynamoDB, PostgreSQL, Oracle, Data Migration at Scale
- **DevOps & Monitoring:** CI/CD, Pipelines, Git, OAuth 2.0, Spring Cloud
- **Methodologies:** Agile/Scrum, System Design, API Design, Mentorship, Cross-functional Leadership

Work Experience

Software Development Engineer II at Amazon, Sunnyvale

August 2019 — Present

- Led development of AI-powered customer support platform serving 2K+ monthly users, reducing support ticket volume by 80% and improving customer satisfaction scores by 20% points.
- Architected multi-agent chatbot system using AWS Bedrock (Claude/Nova models) with custom orchestration layer, achieving 60% autonomous resolution rate across 10+ customer workflows.
- Built real-time debugging assistant integrated with internal ticketing systems, reducing mean time to resolution from 8 hours to 2 hours across 200+ daily incidents.
- Designed and deployed 8 production microservices using Node.js and AWS Lambda, handling 300M+ monthly requests with p99 latency under 200ms and 99.95% uptime.
- Led cross-functional team of 5 engineers through full SDLC, establishing CI/CD pipelines that increased deployment frequency from weekly to daily releases.
- Mentored 15+ engineers on AI integration patterns through technical workshops, resulting in 4 additional AI-powered features shipped by team within 6 months that increased overall developer velocity by 120%.

Senior Software Developer at Best Buy, Minneapolis

May 2018 — August 2019

- Architected microservices platform serving 2M+ daily requests across 5 core services, reducing P99 latency by 35% (from 450ms to 290ms) and achieving 99.9% uptime using service discovery, circuit breaker patterns, and API gateway.

- Built mobile service management platform (Angular) enabling real-time customer verification and service provider onboarding for 500+ store associates across 1,200+ Best Buy locations, processing 15K+ daily transactions.
- Implemented Spring Cloud Config Server for centralized configuration management across 12 microservices, reducing deployment time by 50% and eliminating 15+ configuration-related production incidents.
- Established circuit breaker patterns and service mesh architecture, preventing cascading failures during peak traffic events (Black Friday: 8x normal load) and improving system resilience metrics by 60%.

Software Engineer at Thomson Reuters, Minneapolis

October 2017 — May 2018

- Orchestrated enterprise-scale data migration of 10M+ training document records from legacy Oracle systems using Spring Batch, reducing processing time by 60% and eliminating 800+ hours of annual manual data entry across 5k+ users.
- Developed Angular-based learning management platform supporting 5k+ internal users with course tracking, certification management, and compliance reporting, improving training completion rates from 65% to 90%.
- Implemented OAuth 2.0 authentication layer across 6 microservices, securing API access for 50+ client applications while maintaining SSO compatibility and reducing security audit findings by 85%.

Staff Consultant at Citi Corporation, Fort Lauderdale

December 2016 — September 2017

- Architected configurable Angular framework enabling business users to generate custom web forms through JSON configuration, eliminating 120+ developer hours per quarter and reducing time-to-market for new loan products from 6 weeks to 3 days.
- Implemented responsive design system supporting seamless experience across desktop, tablet, and mobile devices, increasing mobile risk assessment process by business analysts.
- Established agile development practices and sprint ceremonies, improving team velocity by 40% and reducing production bug escape rate from 18% to 4% through enhanced QA processes and automated testing.

Associate Consultant at Oracle Financial Services, Bangalore

August 2012 — December 2016

- Architected and delivered enterprise risk assessment platform for consumer lending, processing credit evaluations for 80+ financial institutions and supporting \$3B+ in annual financial transactions across global markets.
- Led technical modernization initiative introducing Angular framework and RESTful services to legacy Java Struts application, reducing page load times by 65% and improving user satisfaction scores from 5.8 to 8.6/10 (based on quarterly surveys).
- Mentored team of 6 junior developers on Java EE patterns, Spring Framework, and Angular development through weekly code reviews and technical workshops, with 4 mentees promoted to senior roles within 18 months.
- Collaborated with business analysts to translate complex risk assessment requirements into technical specifications, delivering 15+ features across 8 quarterly releases with 95% on-time delivery rate.

Education

Bachelor of Technology (B. Tech) at Jawaharlal Nehru Technological University, Vijayawada

August 2008 — May 2012

Computer Science and Engineering