Prajwal Chinchmalatpure
Software Development Engineer at Amazon | Backend Developer
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PROGRAMMING SKILLS

Programming Languages & Tools: Java, Python, C++, JavaScript, GoLang, HTML5, CSS, MySQL, MongoDB, Git, Docker, Kubernetes, Jenkins, Jira Postman Apache Kafka, Maven, Gradle, OAuth, JWT, JDBC, RabbitMQ **| Frameworks:** Spring, .NET, React, Apache Commons, Google Guava, Jackson, JUnit, Mockito, TestNG, SLF4J **| Cloud Services:** Amazon EC2, Amazon S3, AWS Lambda, RDS, AWS IAM, Amazon SQS, Amazon CloudWatch, Amazon Simple Notification Service (SNS), AWS Cloud Development Kit (CDK), Amazon Event Bridge, CloudFormation
Skills: Problem Solving, Agile Development, REST, GraphQL, API Design, CI/CD, Scrum, Kanban, Microservices architecture, MVC, DevOps

PROFESSIONAL EXPERIENCE

Software Development Engineer　　　　　　　　　　**Amazon, Seattle, WA**　　　　　　　　　　**Nov 2022 - Present**

End to End Order Lifecycle Validation Framework: Design + Implementation | Java, SQS, SNS, Event Bridge, EC2, Multithreading
• Designed end to end order lifecycle validation framework capable of validating 1 Billion+ events fired from 10 Million+ orders everyday
• Realized scalability of **100,000** TPS using parallel Event Bridges, SNS topics, Dynamic SQS queues, ensuring 100% event synchronization
• Reduced data integrity issues & high severity ticket counts by 80% in distributed system to significantly mitigate service disruptions
• Authored a Java library with comprehensive documentation used by developers across **100s** of teams daily to write end-to-end test suites
• Minimized troubleshooting times, accelerated bug resolution related to missing events by deploying e2e tests enhancing system reliability
• Orchestrated end to end AWS CDK infrastructure using factory pattern, provisioned IAM configurations across multiple AWS accounts
• Accomplished a **95%** reduction in event generation faults across domains and 60% reduction in service disruptions after code deployment
• Spearheaded test driven development of above design to reduce UX delays by 50% leading to 20% rise in customer satisfaction metric

Event Transformation Service: Design + Implementation | AWS Lambda, Microservice architecture, Apache Commons
• Designed & implemented event transformation service transforming thin events to data enriched events used by 10+ downstream services
• Achieved 30% reduction in latency of event generation for downstreams leading to accelerated data analytics generation for customers
• Employed Builder Pattern in Java & AWS Lambda for transformation, Event Buses for event routing, Cloudwatch for monitoring & ticketing
• Launched the service to gain **50%** increments in business insights on Analytics dashboard directly improving merchant satisfaction metrics
• Optimized data transmission by reducing event size by 70% leading to reduction in network bandwidth usage enhancing system efficiency
• Architected & successfully implemented a Java-based tool to backfill **500 million+** events. Executed end to end backfill for 6 million orders
• Reviewed and actively approved 500+ code changes and contributed to improve code base test coverage using test-driven development

Operational Excellence | CI/CD, AWS Cloud Development Kit, Amazon Cloudwatch, AWS IAM
• Managed cross service rotational On-call responsibility for 1+ year to resolve **100+** high severity tickets and crafted incident response SOPs
• Executed 100+ deployments. Audited 10+ pipelines to identify and mitigate operational risks. Enhanced Integration test coverage by 50%.
• Engineered critical pre-production stages, auto rollback mechanisms, pipeline enhancements reducing deployment failures by at least 30%
• Developed & deployed end to end monitoring & high sev ticketing system using CloudWatch for full API coverage achieving **99.99%** uptime
• Orchestrated Gameday exercises for Order Cancellation Service, simulating critical system failure, identifying multiple operational risks
• Resolved at least 10 bugs in code base and composed event mitigation runbook reducing Mean Time To Recovery (MTTR) by 20 minutes
• Led successful migration of 30+ AWS CDK packages to latest versions resulting in 15% reduction in build times and improved performance

Software Development Engineer　　　　　　　　　**Amazon Web Services, Seattle, WA**　　　　　　　　　**Jul 2022 - Nov 2022**
Region Build for Gateway Load Balancer | Java, DevOps
• Led AWS regional deployments, cutting build-out timelines by **30%** by automating manual steps, achieving service launches in 5+ regions
• Authored detailed documentation on the build processes, serving as an authoritative guide for TPMs and SDMs, streamlining expansions

Team Lead for Intern Engineering team　　　　　　　**DigitalMain, Sunnyvale, CA**　　　　　　　(Remote) **Mar 2018 - May 2019**
• Developed fully functional conversational chatbot for digital banking using NLP, Document retrieval, Tone analyzer trained on baking FAQs
• Improved conversation retention by **80%** by computing User Anger Score and average conversation duration by 50% using a Virtual Agent

EDUCATION

Northeastern University　　　　　　　　　　　　**Boston, MA**　　　　　　　　　　　　**Jan 2021 - June 2022**
Master of Science in Computer Science at Khoury College of Computer Sciences | Algorithms, Program Design Paradigms　　　**GPA: 3.9/4.0**
Savitribai Phule Pune University　　　　　　　　　**Pune, India**　　　　　　　　　**June 2016 - Sep 2020**
Bachelor of Computer Science Engineering at Institute of Information Technology | Data Structures, OOP　　　**First Class with Distinction**

RESEARCH PUBLICATIONS / ACHIEVEMENTS

1. *Potential of Robust Face Recognition form Real-time CCTV video stream for Biometric Attendance using CNN*
2. *Classification and Prediction of Rice Crop Diseases using Convolutional Neural Network*
3. *Chatbot: Integration of Applications within Slack Channel*

• National rank **121** and Silver medal in National Science Olympiad
• First Position: University Debate Competition at Pune University
• Lead & managed multiple teams technical interns at Digital Main
• Trained a group of 40 youth to achieve IT literacy at NGO in India
• Mentored 12 university students at a Forbes Marshall initiative