Sarang Nagpal

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ABOUT ME

I am a Results-oriented Software Engineer with experience building high-throughput systems in Go, leading resilience testing initiatives, and building full stack applications with complex business logic. Skilled in scalable architecture, cloud-native systems, and modern DevOps practices. My Primary technical skills include Java, ReactJS, and RESTful APIs. Adept at system design and implementing resilient architectures that handle Billions of transactions every day and experienced in working within agile teams to deliver impactful, high-quality solutions

EDUCATION AND TRAINING

01/05/2019 – 01/06/2023 Warangal, India

BACHELORS OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING National Institute of Technology, Warangal

Website https://nitw.ac.in/ | **Level in EQF** EQF level 6

20/06/2017 – 18/04/2019 Hyderabad, India

SECONDARY SCHOOL, JUNIOR COLLEGE VelocIITy Junior College

Field of study Chemistry , Physics , Mathematics | **Level in EQF** EQF level 4

15/06/2006 – 15/06/2016

ELEMENTARY AND HIGH SCHOOL St. Aloysius English Medium School

Website https://staloysiusyavatmal.com/ | **Level in EQF** EQF level 3

WORK EXPERIENCE

DATA ENGINEER – VISA INC – 01/04/2025 – Current – BANGALORE, INDIA

Current Achieved Activities
• Implemented a token bucket–based rate limiter in a high-performance Go-based load generator, enabling control of stress test throughput at 40K+ TPS, improving test predictability and system observability.
• Contributed to multiple production releases, addressing critical security vulnerabilities, reducing CVE exposure across customer-facing services.
• Initiated and established foundational practices for chaos engineering in AI inference services, focusing on fault injection, latency simulation, resource exhaustion and stale context scenarios to improve model resilience.
• Collaborated cross-functionally to develop monitoring metrics and dashboards to measure impact of chaos tests and rate-limiting logic on AI model inferencing

AMAZON – BANGALORE, INDIA

SOFTWARE DEVELOPMENT ENGINEER – 01/01/2024 – 28/02/2025

• Collaborated in a team to implement Features in Scalable Architecture to optimize customer onboarding, reducing number of customers clicks by 50%, improving overall issuance metrics by 8% and reducing latency.
• Improved Payment Success Rate by 5% by Implementing Strategies to improve resiliency of UPI Payments for more than 20 million Customers
• Resolved Numerous Business papercuts and developer backlog queue items implementing RESTful APIs using Java and multiple AWS Components like AWS Lambda, DynamoDB, SQS, SNS, etc.
• Designed and developed systems solving business problems while upgrading the frontend framework to build interactive web pages for mobile from JSP to ReactJs with Redux.

SOFTWARE DEVELOPMENT ENGINEER INTERN – 02/05/2022 – 29/07/2022

- Built a back-end service in Spring Boot (Java) to test the resilience of Amazon Pay's core UPI service while working in an Agile Environment
- Achieved a 100% score in resilience metric for the core service by configuring stress tests in a custom stress testing framework

SKILLS

Programming Languages and Frameworks

C++ / Python / Java / Go / JavaScript / ReactJS / JSP

Cloud Technologies

Kubernetes / Docker / Jenkins / Kafka / RabbitMQ / AWS SQS / AWS DynamoDB / AWS Lambda

Machine Learning

TensorFlow / Keras / Deep Learning / Convolution Neural Networks / LLM / GenAI

Big Data and Data Analysis

Hadoop | PySpark | Pandas | Hive Tables

CERTIFICATIONS

Coursera, 16/09/2020

Deep Learning Specialization

With completed projects in Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models

Mode of learning: Project based

Link https://www.coursera.org/account/accomplishments/specialization/JC8BNE5GWG9Y

Stanford , 31/12/2022

Machine Learning

Coursera Certificate

Mode of learning: Online

Link https://www.coursera.org/account/accomplishments/verify/8ZZGEZ8EZ3U4

Bangalore , 16/12/2025

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