

# SARANG NAGPAL

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[GitHub](#)

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[Portfolio](#)

## Education

**National Institute of Technology, Warangal (NITW)**

Bachelors of Technology, Electronics and Communication Engineering

2019 - 2023

Warangal, India

## Experience

**Software Development Engineer**

**Amazon**

Jan 2024 – Present

Bangalore, India

- Collaborated in a team to Implement Features in **Scalable Architecture** to reduce number of Customer clicks by **50%** during onboarding, 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**.

**Back End Developer**

**Raze**

Oct 2023 - Jan 2024

Bangalore, India

- Built In-House Central Asynchronous **Server to Server Communication** System, using **RabbitMQ** for the message queues between **RESTful** application servers
- Extended the design to incorporate Consumer Functions for the queues to perform various business applications, leveraging **Microservices** Architecture.
- Built **RESTful** APIs using **ExpressJS** framework for various CRUD operations and business logic

**Software Development Engineer Intern**

**Amazon**

May 2022 - July 2022

Bangalore, India

- 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 **200%** increase in resilience metric for the core service by configuring **stress tests** in a custom stress testing framework.

## Skills

**Programming Languages:** Java, TypeScript, JavaScript, Python, C++

**Frameworks:** ReactJS, Redux, Node.js, Express.js, Spring Boot, JSP

**Cloud Platforms & Tools:** AWS (Lambda, S3, DynamoDB, API Gateway), RabbitMQ, Serverless Framework, MongoDB

**Backend Technologies:** RESTful APIs, Microservices Architecture, Asynchronous Communication, MySQL

**Machine Learning (Basics):** TensorFlow, Keras, Deep Learning, Training Custom Neural Network

**Additional Skills:** System Design, Scalable Architecture, Agile Methodologies

## Extra-Curricular and Co-Curricular

• **Lead Software Developer, SpringSpree, NIT Warangal**

Feb 2023 - April 2023

- Lead design and development of various subsystems used in Spring Spree for ticketing, payment and social media content creation, handling a foot fall of more than **3000 people**, while mentoring a team of junior developers working in tech stack of ReactJS, NodeJS and MongoDB

• **Deep Learning Specialization, Coursera Certification by Deeplearning.AI**

## Summary

A Software Developer with experience designing and developing full stack applications which require high throughput and extremely high availability using various AWS services and custom Micro services.