SARANG NAGPAL

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# Education

**National Institute of Technology,** **Warangal** (**NITW**) 2019 - 2023

Bachelors of Technology, Electronics and Communication Engineering Warangal, India

# Experience

**Software Development Engineer** Jan 2024 - Mar 2025 [Amazon](https://www.linkedin.com/company/amazon-pay-india/) *Bangalore, India*

* Collaborated in a team to implement Features in **Scalable Architecture** to optimize customer onboarding, reducing number of customer 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**.

**Back End Developer Intern** Oct 2023 - Jan 2024 [Raze](https://www.linkedin.com/company/raze-platform/) *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** May 2022 - July 2022 [Amazon](https://www.linkedin.com/company/amazon-pay-india/) *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, MongoDB

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

**Machine Learning (Basics):** TensorFlow, Keras, Deep Learning, Neural Networks

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

# Extra-Curricular and Co-Curricular

* **Lead Software Developer,** [SpringSpree, NIT Warangal](https://en.wikipedia.org/wiki/SpringSpree) Feb 2023 - April 2023
* Lead design and development of various subsystems used in Spring Spree handling a foot fall of more than **3,000 attendees** and enhancing ticketing, payment and social media content creation, 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

Software Developer with experience in building scalable, high-availability systems using AWS and microservices. Skilled in Java, ReactJS, and RESTful APIs, with a proven track record of optimizing customer experiences and driving measurable results. Adept at system design and implementing resilient architectures that handle millions of transactions seamlessly. Experienced in working within agile teams to deliver impactful, high-quality solutions.