

# Nandini Sharma

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## EXPERIENCE

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### Software Development Engineer | Zeta | Bengaluru, Karnataka, India | July 2021 - Present

- Engineered and Implemented a Kubernetes operator that automated the creation of Kubernetes resources using Fabric8 open-source service. This service provided other services the ability to query database using Postgres and OpenResty, streamlining Kubernetes resource provisioning org-wide.
- The operator development reduced a 7-step manual deployment to a single-step onboarding process, setting a gold standard for resource creation. Reducing the dev time consumption by 80% for the task.
- Led the design and implementation of a significant feature for a data definition language (DDL) operator, empowering users to apply schemas to multiple shards across diverse regions through Single Custom Resource. The Feature enhanced scalability and data management efficiency while ensuring seamless schema additions and updates across multiple resources.
- Led and delivered the initiative for front-end infrastructure upgrade navigating through unfamiliar territory to meet urgent business requirements and elevate user experience. Furthermore, drove product discussions with leadership for better usability and consumer centric product planning.
- Led end-to-end migration of an outdated stack service, successfully transforming the architecture from an OMS and Postgres stack to a modern Spring Boot and MongoDB solution. Achieved improved performance and lowered latency by leveraging the non-relational nature of the data and eliminating dependencies.
- Single-handedly migrated Zeta's organisational level storage service from the OMS stack and Postgres database to Spring Boot and MongoDB. This transition generated a robust, fast, and scalable system that impacted every developer team in Zeta.
- Achieved 98% data migration accuracy when transferring 60 million records from the outdated stack to modern architecture. Initiated a bridge between the two applications for no data loss while the customers onboarded to the new application by implementing streaming and reverse streaming algorithms.
- Optimised logs by resolving log repetition, service errors, and warnings, resulting in improved log quality, reducing total log volume by 80%.
- Built complete cross-server end-to-end backend services utilising REST API, Web hooks, and Spring Boot technologies. Implemented data modularisation, data modelling, and optimisation techniques for Internal Performance Monitoring Platform.

### Research Intern | National Institute of Technology | Hamirpur, Himachal Pradesh, India | June 2020 - December 2020

- Developed an Agro-Social mobile application in Java/Android, which brought awareness on better crop production for the government project which helped around 500 farmers.
- Prepared results based on research around crop diseases, farming techniques and data inputs from farmers across the country.
- Collected, processed, and analysed data for the Agro-Social application, increasing efficiency by 20%, which can help farmers increase their crop yield.

## PROJECTS

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### Code Capture | June 2021 - September 2021

- Shaped a Text to Code Application which allow users to scan handwritten notes and convert it into editable and formatted code with a single click.
- The aim of the app was to make coding accessible to underprivileged segment of learners who don't have active access to latest devices and technologies. Showcased the project on Microsoft sponsored event, "Hour of Code", coordinated in over 180+ countries which impacted more than 15,000 students worldwide.

## EDUCATION

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### Bachelor of Technology (Computer Science) | Banasthali Vidyapith | Jaipur, Rajasthan, India | 2021

## INVOLVEMENT

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### Speaker | The Linux Foundation | December 2023 - December 2023

- Selected as a speaker and delegate for multiple events, seeking knowledge and advocating for open source development usage and contribution. Presented at The Open Source Summit, Japan on Secure Coding in Open Source.

## SKILLS

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Java, Spring Boot, Python, Apache Spark, MongoDB, PostgreSQL, Docker, Kubernetes, Grafana, Kibana, Bash