

# Nandini Sharma

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## EXPERIENCE

### Software Development Engineer

Zeta

June 2021 - Present, Bengaluru, Karnataka, India

- Developed a Kubernetes operator that leads the creation of Pods directly through Java Service. This caused a 7-step manual deployment to be reduced to a single-step process. The operator was later extended to more services resulting in setting a gold standard.
- Led end-to-end migration of an outdated stack service, successfully transforming the architecture from an OMS and Postgres stack to a modern Spring Boot and MongoDB solution.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 organization-level storage service from the OMS stack and Postgres database to Spring Boot and MongoDB. This transition created a robust, fast, and scalable system that impacted every developer team in Zeta.
- Attained 98% data migration accuracy in transferring 60 million records from the outdated stack to modern architecture. Created a bridge between the two applications for no data loss while the customers were onboarded to the new application by implementing streaming and reverse streaming algorithms.
- Acted as the single POC for the Himalia service, which powers Zeta's payments and rewards stack. Responsible for maintaining, testing, and improving the entire service codebase.
- Optimised logs by resolving log repetition, service errors, and warnings, resulting in improved log quality. Reduced total log volume by 80%.
- Developed 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.
- Introduced and authored comprehensive end-to-end testing using Mockito and unit test methodologies for all Monitoring Services at Zeta. Standardised services and significantly reduced failure instances.
- Utilised technologies such as Prometheus, Grafana, and Kibana to build executive view dashboards for performance monitoring of Kubernetes clusters, resulting in increased efficiency and productivity.
- Successfully onboarded the key client, Kroger for the US, within a short notice period. Collaborated with various teams to ensure a smooth onboarding process. Enhanced overall codebase performance and maintained code robustness for various services using Code Climate & Sonar Cube tools.

### Research Intern

National Institute of Technology

July 2020 - December 2020, Hamirpur, Himachal Pradesh, India

- Developed an Agro-Social mobile application in Java/Android, which created 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 analyzed data for the Agro-Social application, increasing efficiency by 20%, which can help farmers increase their crop yield.

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## PROJECTS

### Code Capture

June 2021 - September 2021

- Created 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.

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## EDUCATION

### Bachelor of Technology (Computer Science Engineering)

Banasthali Vidyapith • 2021

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## INVOLVEMENT

### MozFest Wrangler

Mozilla • March 2022 - December 2022

- Facilitated in Festival Theme Selection, Short- listing and Scheduling Sessions for the Misinformation Disinformation Space of MozFest.
- Directed sessions for the conference with facilitators and Mozilla Team for organising and structuring the entire event.

### Gold Microsoft Learn Student Ambassador

Microsoft • June 2020 - June 2021

- Coordinated 30+ events on Microsoft technologies. Organised and lead sessions on topics such as Rummy Vision, AI Gaming, Github.

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## SKILLS

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