



# AJAY NEGI

 [ajaynegi.web.app](https://ajaynegi.web.app)

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## Work Experience

### Infosys Springboard

October 2024 – December 2025

*Software Developer Intern*

- Developed ShieldMe, a **full-stack** emergency response and mental well-being application, along with a **centralized admin panel** for efficient user data management, enhancing system control.
- Designed and implemented **4 distributed backend microservices** using **Spring Boot**, **Kafka**, **MongoDB** and built a responsive React frontend, integrating authentication, geolocation tracking, journaling, SOS alerts, and a centralized admin panel for enhanced system efficiency.
- Improved application reliability by 90%**, resulting in fewer system errors and crashes, by implementing advanced error handling and centralized logging mechanisms across all microservices.

### GirlScript Summer of Code

October 2024 – October 2024

*Project Admin*

- Reviewed and managed 200+ issues and 100+ pull requests, merging 40+ high-quality contributions to improve code reliability and maintain project standards in an open-source community.
- Mentored 50+ contributors** by providing constructive feedback, resolving technical challenges, and coordinating tasks to achieve timely project milestones.

## Projects

### Uttarakhand Culture Preservation Project | *Next.js, PostgreSQL*

[Live Link](#)

- Younger generation in Uttarakhand is increasingly **disconnected from their cultural heritage**, with each generation retaining less knowledge than the last, putting the region identity and traditions at risk.
- Built** an interactive **digital platform** that **documents Uttarakhand** rich cultural heritage by digitizing its language, festivals, treks, stories, art, history and more. This project is my heart and purpose.
- Currently serving **100** active users, with growing user base and increasing engagement on cultural content

### Vayu - Web Server | *Java, Netty, Grafana K6, Docker*

[Source Code](#)

- Developed Vayu, a **high-performance, lightweight** Java web server using Netty, designed for scalability, rapid data transfer, and minimal resource consumption.
- Leveraged Netty **asynchronous event-driven architecture** to efficiently handle high concurrency with non-blocking I/O, using Grafana K6 for performance testing and optimization.

### Old School Game | *Next.js, Artificial Intelligence*

[Live Link](#)

- Recreated nostalgic games using AI-powered Minimax algorithm to deliver engaging human-vs-AI gameplay while promoting cognitive skill development.

## Leadership & Extracurricular

- Award:** Led a team that **won 1st place out of 70 teams** in a 24-hour Hackathon, by developing a healthcare accessibility platform for nearby govt. medical facilities and generic medicine identification.
- Community Builder & Coach:** Spearheading the Uttarakhand Culture community, building a platform to preserve cultural values, learn from traditions, and share knowledge with future generations.
- Certifications:** Postman API Fundamentals Student Expert by Postman, Programming using Java by Infosys, Certified Kubernetes Application Developer (CKAD) by KodeKloud
- Newsletter:** Author a monthly blog, Codies Coder, exploring software engineering topics in-depth. [link](#)

## Technical Skills

**Languages/Lib/Frameworks:** Java, Spring Boot, JavaScript, Reactjs, Nextjs, HTML/CSS, JUnit

**Technologies:** Docker, Linux, Kubernetes, AWS, Git, Github, Kafka, Grafana K6

**Databases:** MySQL, PostgreSQL, MongoDB

## Education

IITM College of Engineering

July 2022 – May 2025

*Bachelor of Computer Application*