AJAY NEGI

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Work Experience

Infosys   **November 2024 – January 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 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 – November 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.

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
Technologies:	Linux, Docker, Kubernetes, Git, Github, Grafana K6, Kafka
Databases:	MySQL, PostgreSQL, MongoDB

Education

AKIDO College of Engineering   **July 2022 – May 2025**
Bachelor of Computer Application