AJAY NEGI

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Work Experience

Infosys Springboard   **Oct 25 2024 – Dec 31 2024**
Software Developer Intern   *Remote*
- 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, 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   **Oct 01 2024 – Nov 10 2024**
Project Admin   *Remote*
- 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.
- **Certifications:** Postman API Fundamentals Student Expert, Programming using Java by Infosys, Amazon Elastic Container Service & Certified Kubernetes Application Developer by KodeKloud
- **Newsletter:** Author a monthly blog, Codies Coder, exploring software engineering topics in-depth. link

Technical Skills

Lang & Frameworks: Java, Spring Boot, JavaScript, TypeScript, React.js, Next.js, Node.js, HTML5/CSS
Cloud & DevOps: AWS (EC2, S3, IAM, Lambda), Docker, Kubernetes, GitHub Actions, CI/CD, Linux
Databases & Testing: MySQL, PostgreSQL, MongoDB, Postman, JUnit, Grafana K6
Practices & Others: Agile Methodologies & Scrum, SDLC, Distributed Systems, REST APIs, TCP/IP

Education

Akido College of Engineering   **July 2022 – May 2025**
Bachelor of Computer Application   *7 CGPA*
Coursework: *Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Computer Networking and Data Communication, Software Engineering Principles*