# 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, TypeScript, 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.

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

- Built a high-performance asynchronous web server using Netty event-driven architecture and non-blocking I/O for scalability and speed, tested using Grafana K6, and optimized for high-concurrency environments

**FormMaillyGo** | *Go, AWS Lambda, Docker, Github Actions*                                    **Live Link**

- Develop a serverless backend solution to turn static contact forms submission into real emails — fast, secure and completely free within AWS Lambda limits 1M Free requests/month ideal for solo devs & startups.
- Implemented RESTful API routes with input validation, HTML templating, SMTP integration and containerized it via Docker while optimizing it for cold-start performances.

## 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:** Introduction to Generative AI by **AWS**, Amazon Elastic Container Service & Certified Kubernetes Application Developer by **KodeKloud**, Programming using Java by **Infosys**

- **Newsletter:** Author a monthly blog, Codies Coder, exploring software engineering topics in-depth. link

## Technical Skills

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|---|---|
| **Langguage & Frameworks**: | Java, Spring Boot, Go, JavaScript, TypeScript, React.js, Next.js |
| **DevOps**: | AWS, Docker, Kubernetes, Jenkins, Ansible, Terraform, Linux, Jira, Git |
| **Databases & Testing**: | MySQL, PostgreSQL, MongoDB, Postman, JUnit, Grafana K6 |
| **Others:**: | GraphQL, Agile Methodology & Scrum, SOLID Design Principles, Distributed Systems, TCP/IP |

## Education

**Akido College of Engineering**                                                **July 2022 – July 2025**
*Bachelor of Computer Application*                                                              *7/10 CGPA*
***Coursework:*** *Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Computer Networking and Data Communication, Software Engineering Principles*