

AJAY NEGI

 ajaynegi.web.app

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Work Experience

Infosys Springboard

Java Developer Intern

Oct 2024 – Dec 2024

Remote

- Developed ShieldMe, a **full-stack** emergency response and mental well-being application, along with a **centralised admin panel** for efficient user data management and operational control.
- Designed and implemented **4 distributed backend microservices** using Spring Boot and MongoDB, enabling **inter-service communication via gRPC & Protocol Buffers** and built a responsive React frontend integrating authentication, geolocation tracking, journaling, SOS alerts and a centralised admin panel.
- Reduced API error rates from 15% to under 2% by implementing structured exception handling with custom error codes, logging and enforcing strict schema validation across all microservices.

Projects

FileShare - P2P File Sharing | *Java, Next.js, Zustand, WebRTC, AWS Lambda, Redis*

[Link](#)

- Built a zero-server-storage file transfer webapp where users share files directly browser-to-browser using WebRTC, with a PIN-based pairing system backed by AWS Lambda and Redis for session management.
- Engineered chunked streaming with backpressure control to handle multi-GB files smoothly, writing directly to disk via the File System Access API, with a fallback to in-memory Blob assembly.

FormMaillyGo - Serverless Email Infra | *Go, AWS Lambda, RESTful API*

[Link](#)

- Engineered a cost-efficient serverless backend that turns static-site contact-form submissions into secure emails, delivering sub-second response times and running entirely within AWS Lambda 1M free monthly request tier, ideal for solo devs and startups.

UttarakhandCulture | *Next.js, TypeScript*

[Link](#)

- Building a digital archive to preserve Uttarakhand fading cultural identity by documenting local dialects, festivals, folklore, and mountain trails that younger generations are increasingly losing touch with.
- Developed interactive features for exploring the region's heritage through searchable categories, making centuries-old traditions accessible to anyone with internet, helping families reconnect with their roots.

Leadership & Extracurricular

- Hackathon:** Led 4-person team to 1st place (70 teams) in 24hr healthcare hackathon, building a govt. medical facility locator with generic medicine lookup - judged on technical execution and social impact.
- Certifications:** Introduction to Generative AI by **AWS**, Amazon Elastic Container Service & Certified Kubernetes Application Developer by **KodeKloud**, Programming using Java by **Infosys**
- Technical Writing:** Publish monthly deep dives on software engineering topics on Codies Coder. [link](#)

Technical Skills

Languages & Frameworks:

Java, Go, JavaScript, Spring Boot, React, JUnit

Cloud:

AWS, Docker, Kubernetes, Jenkins, Linux, Git, CI/CD pipelines, Prometheus

Databases:

PostgreSQL, MongoDB, Redis, Memcached

Others:

Event-driven systems, Distributed Systems, Caching, Design Patterns, Jira, Kafka

Education

IITM College of Engineering

July 2022 – July 2025

Bachelor of Computer Application

Coursework: *Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Computer Networking and Data Communication, Software Engineering Principles, Agile & Scrum-based Project Development*