

# Tilak Raj Rawat

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## SUMMARY

**Cloud-Native Full-Stack Engineer** skilled in MERN/Next.js, Spring Boot, Azure, AWS fundamentals, serverless architectures, and AI/ML integrations. Experienced in building scalable systems, distributed workflows, and automated CI/CD pipelines. Solved **300+ DSA problems**, demonstrating strong analytical and problem-solving abilities.

## EDUCATION

<b>Graphic Era Hill University</b> <i>B.Tech in Computer Science and Engineering — CGPA: 7.8</i>	Dehradun, Uttarakhand 2022 – Present
<b>Gauri Memorial Public Inter College</b> <i>Senior Secondary (UK Board) — Percentage: 79%</i>	Augastmuni, Uttarakhand 2020 – 2022

## EXPERIENCE

<b>Salesforce Developer Intern (Virtual)</b> <i>Agentblazer Champion Program</i>	May 2025 – July 2025 Remote
<ul style="list-style-type: none"><li>Created proof-of-concept automation flows using Salesforce Flow Builder to streamline basic task processing.</li><li>Worked on data modeling, security configurations, and permission sets to strengthen understanding of scalable cloud applications.</li><li>Gained exposure to declarative development, workflow automation, and Lightning components.</li></ul>	

## PROJECTS

<b>Cloud-Native MERN Application on Azure</b>   MERN, Azure Functions, Cosmos DB, Docker	2025
<ul style="list-style-type: none"><li>Enhanced a full-stack MERN application deployed on Azure App Service using Docker-based deployment workflows.</li><li>Configured Azure Cosmos DB (Mongo API) with serverless mode and basic partitioning to support app data storage.</li><li>Used Azure Functions for background tasks such as notification handling and scheduled operations.</li><li>Integrated Application Insights for application logs, error tracking, and performance monitoring.</li></ul>	
<b>AI-Based Proctoring System</b>   Next.js, Spring Boot, MongoDB, YOLOv8, WebRTC	2025
<ul style="list-style-type: none"><li>Built a prototype proctoring tool using YOLOv8 to detect mobile phones, faces, and simple anomalies from live video frames.</li><li>Improved the Spring Boot backend for user authentication, event logging, and storing detection results in MongoDB.</li><li>Implemented real-time video streaming using WebRTC and WebSocket-based alerts for detected anomalies.</li><li>Designed REST APIs for uploading frames, retrieving logs, and managing review workflows.</li></ul>	
<b>Real-time Chat Application</b>   MERN (MongoDB, Express, React, Node.js), Socket.IO	2025
<ul style="list-style-type: none"><li>Enhanced a real-time chat platform using Socket.IO and Express with features such as chat rooms, online status, and typing indicators.</li><li>Created MongoDB schemas to manage users, messages, and conversation history.</li><li>Built an interactive React interface enabling smooth real-time message updates and presence tracking.</li><li>Structured WebSocket event handling with room-based routing to improve message delivery efficiency.</li></ul>	

## TECHNICAL SKILLS

**Languages:** C, C++, Java, Python, TypeScript, JavaScript, SQL

**Backend/Frameworks:** Spring Boot, Node.js, Express.js, FastAPI, REST APIs

**Frontend:** React, Next.js, Tailwind CSS, HTML/CSS

**Cloud / DevOps:** Azure (App Service, Functions, Cosmos DB), AWS (EC2, S3, IAM, VPC), GitHub Actions, Docker, Git

**AI/ML:** YOLOv8, OpenCV, Gemini API, pandas, NumPy

**Tools:** Git, VS Code, PyCharm, IntelliJ, Postman

## CERTIFICATIONS

Microsoft Learn – Azure Fundamentals (AZ-900 Learning Path)

Microsoft Learn – Azure Developer (Functions, Cosmos DB, App Service)

Microsoft Learn – Azure AI Fundamentals (AI-900 Learning Path)