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Monesh D

Software Engineer

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EDUCATION

B.Tech, Information Technology, *Rajiv Gandhi College of Engineering and Technology* 2023 — 2027 CGPA: 8.2 / 10.0, Puducherry
Higher Secondary, Biology Mathematics, *Prof. Annoussamy Higher Secondary School* 2021 — 2023 CGPA: 7.5 / 10.0, Puducherry

SKILLS

Backend	Java, Spring Boot, MySQL, Git
DevOps	CI/CD (GitHub Actions), Containerization (Docker), Container Orchestration (Kubernetes)
Cloud	AWS, EC2, S3 , ECR , IaC (Terraform)
Development Practices	Clean Code, MVC , REST API Design , JWT Authentication, RBAC
Tools	GitHub, MySQL, Postman, IntelliJ IDEA, Linux, Nginx

TECHNICAL EXPERIENCE

Backend Engineer | Freelancer | Live: <https://annoussamy.in> **Apr 2026 — Present**
Professor Annoussamy Higher Secondary School *Remote*

- Identified the school's need for a stronger digital presence, built a functional prototype using **Spring Boot, React, and MySQL**, and presented it to school leadership, leading to approval for the production platform.
- Developed and maintained the **Spring Boot backend**, implementing REST APIs, MySQL persistence, Spring Security with **JWT authentication**, and **3-role RBAC** for developer, admin, and office users.
- Implemented **Nginx-level rate limiting** for selected public endpoints and optimized database queries by retrieving only required columns instead of using broad queries.
- Evaluated **20+ hosting providers** based on cost, server specifications, region, expected traffic, and support; deployed the application on a **Linux VPS** using Nginx, systemd, and SCP-based artifact deployment.
- Configured **automated weekly MySQL backups**, retaining a local database dump and an external copy, and continue handling production maintenance, deployments, bug fixes, and client communication.
- Received the school's **first online admission enquiry within 10 hours of launch**, providing an early real-world indication that the platform was being used by prospective students/parents.
- Tech Stack:** Java, Spring Boot, REST APIs, MySQL, Nginx, Linux

DevOps / Full-Stack Intern (AWS) **May 2026 — Jun 2026**
Diafoni Technology (HireRankers) *Remote*

- Provisioned **AWS infrastructure** using **Infrastructure-as-Code (IaC)** for consistent and repeatable cloud deployments.
- Deployed **serverless architectures** using Lambda and API Gateway, focusing on scalability and operational efficiency.
- Integrated Amazon Bedrock into AWS workloads and configured cloud services for AI-powered applications.
- Automated **CI/CD workflows** using GitHub Actions, covering application build, testing, and deployment.
- Worked across **AWS cloud services**, deployment automation, and application infrastructure within an Agile/Scrum environment.
- Collaborated** with intern teams to troubleshoot bugs and deployment issues, improving deployment reliability, automation, and cloud infrastructure practices.
- Tech Stack:** AWS Lambda, API Gateway, Amazon Bedrock (AI Integrations) , GitHub Actions, CI/CD, Infrastructure as Code

DEV16 Blog | Live : <https://blog-1fcl.onrender.com>
Personal Project

- Built a **Spring Boot** blog application with **REST APIs** and **MySQL** for content and image management.
- Identified a **performance bottleneck** caused by storing images as **MySQL BLOBs**, resulting in page load times of approximately **300 seconds**.
- Migrated image storage from MySQL BLOBs to **object storage** and implemented **pagination** and API-level optimizations.
- Reduced page load time from approximately **300 seconds to 6 seconds**, improving application performance and scalability.
- Tech Stack:** Java, Spring Boot, REST APIs, MySQL, Object Storage

ACTIVITIES

Top Performer, Hire Rankers 2026
Recognized in a live assessment evaluating analytical reasoning, communication skills, and coding under tight time constraints

Hackathon Winners, 8-Hour Real-Time Problem Solving 2026
Delivered a working solution under time pressure, demonstrating quick thinking and effective team collaboration