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Monesh D

SDE - I (Backend Engineer)

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Professional Summary

Final-year engineering student with 6+ months of hands-on experience working with product-based startups and freelance development teams, building, deploying, and maintaining backend systems for real-world clients. Experienced in delivering production-ready applications using Java, Spring Boot, AWS, and CI/CD pipelines to address real-world business requirements.

Skills

Backend	Java , Spring Boot, MySQL, RESTful APIs, MVC, JWT Authentication, RBAC, Clean Code
DevOps & Cloud	AWS (EC2 , S3 , Lambda , API Gateway , Bedrock) , Terraform (IaC), CI/CD (GitHub Actions), Linux , Docker, Kubernetes
AI Engineering	Retrieval-Augmented Generation (RAG), LLM API Integration (OpenRouter, Amazon Bedrock), n8n
Core CS	Data Structures & Algorithms , Object-Oriented Programming , Computer Networks, Database Management Systems
Tools	GitHub, Postman, IntelliJ IDEA , Cursor (AI-Assisted Development)

Technical Experience

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

- Analyzed institutional requirements, designed and pitched a functional prototype, securing leadership approval for production development.
- Engineered and launched the production website, increasing institutional information accessibility from 50% to 85% through a centralized digital platform.
- Engineered reliable backend APIs using Java and Spring Boot, implementing Nginx-level rate limiting and optimized database queries to retrieve only required data.
- Managed production deployments, bug fixes, database backups, system maintenance, and client communication to ensure ongoing platform reliability.
- Delivered the production platform on 26 May 2026, receiving its first online admission enquiry within 10 hours of launch.
- **Tech Stack:** Java, Spring Boot, REST API Design, MySQL, JWT, System Design (Rate Limiting) , Linux , Deployment.

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

- Provisioned AWS infrastructure using CDK (Infrastructure as Code), reducing manual configuration effort by 60%, and integrated Amazon Bedrock into cloud workloads for AI-powered applications.
- Shipped serverless applications using AWS Lambda and API Gateway, reducing infrastructure management overhead by 20% while improving scalability and operational efficiency.
- Automated CI/CD pipelines using GitHub Actions for application builds, testing, and deployments, reducing manual deployment time by 80% .
- Collaborated in an Agile/Scrum environment to resolve technical issues and deliver development tasks within team workflows.
- **Tech Stack:** AWS, IaC (CDK) , Amazon Bedrock, AWS Lambda, API Gateway, GitHub Actions.

Cloud Intern **Feb 2026 (1 Month)**
CloudMaSa Innovation Lab Private Limited *Onsite*

- Provisioned AWS infrastructure using modular Terraform configurations, reusable variables, and S3 remote state, reducing manual provisioning effort by up to 60%.
- Published a portfolio website using Amazon S3 static website hosting and configured bucket policies and public-access permissions.
- Constructed 3 n8n automation workflows for HR communication, reducing repetitive manual tasks by up to 60% to 70%.
- **Tech Stack:** AWS , MySQL, Kubernetes , Docker , n8n, GitHub , Terraform (IaC).

Education

B.Tech in Information Technology, Rajiv Gandhi College of Engineering and Technology | **CGPA:** 8.2 / 10.0 | Puducherry, India 2023 — 2027

Higher Secondary (Biology Mathematics), Prof. Annoussamy Higher Secondary School | **CGPA:** 7.5 / 10.0 | Puducherry, India 2021 — 2023

Achievements

1st Place, HireRankers Voice AI Evaluation Mar 2026
Secured 1st place among 7 internship-selected candidates from 100+ participants, demonstrating technical communication, problem- solving, and software engineering fundamentals.

Participant, HACKHAZARDS '25 – Data Streaming Hackathon (International Level) April 2025
Migrated the application from Windows to Linux, installed and configured Fluvio, and built a Python service to ingest external data into Fluvio and expose APIs for frontend consumption.

Community & Workshops

DevOps & CI/CD Workshop Participant, Free Software Hardware Movement Puducherry (FSHM) 2025

- Participated in a technical session led by PuduvaiGLUG on continuous integration, continuous deployment (CI/CD) best practices, and automated deployment pipelines.
- Engaged with local open-source and DevOps communities to discuss infrastructure automation and cloud workflows.