

Arnav Ashok

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EDUCATION

Vellore Institute of Technology <i>Bachelor of Technology in Computer Science</i>	2022 – 2026 CGPA: 8.39
D.A.V Public School, Bariatu, Ranchi <i>Grade 12 (CBSE)</i>	2021 88.8%
Surendranath Centenary School, Ranchi <i>Grade 10 (CBSE)</i>	2019 96%

TECHNICAL SKILLS

Backend (Primary): Java 17, Spring Boot, Spring Security, REST APIs, Microservices, Spring Cloud (Gateway, Eureka, Config), Maven
Databases: PostgreSQL, MySQL, MongoDB
Cloud & DevOps: AWS (SNS, S3), Docker, Docker Compose, Git, CI/CD, Linux
AI & Automation: Python, YOLOv8, Machine Learning Basics, n8n
Full Stack: MERN Stack, React.js, Node.js, Express.js

PROJECTS

ShopVerse <i>Java, Spring Boot, Spring Cloud, Docker, PostgreSQL</i>	2024
• Built a production-style microservices backend with API Gateway, Service Discovery, and centralized configuration.	
• Implemented JWT-based authentication with role-based authorization at gateway and service layers.	
• Designed User, Product, and Order services with isolated PostgreSQL databases per service.	
• Enabled resilient inter-service communication using OpenFeign and Resilience4j circuit breakers.	
• Containerized the entire system using Docker Compose for one-command local deployment.	
Disaster Management & Alert System <i>Java, Spring Boot, AWS SNS, AWS S3, n8n</i>	2024
• Designed a multi-agency disaster coordination platform handling 10,000+ incident reports per month.	
• Built microservices for ingestion, validation, and priority scoring, improving triage speed by 35%.	
• Automated real-time SMS and email alerts using AWS SNS; stored incident data in AWS S3.	
• Integrated n8n workflows for automated incident escalation and cross-agency notifications.	
NEO-PIGGY — AI-Powered Expense Tracker <i>Java, Spring Boot, Python, ML</i>	2024
• Developed an AI-driven expense tracker used by 50+ test users with persona-based spending insights.	
• Trained a machine learning model achieving 92% classification accuracy across three spending personas.	
• Built backend analytics services, improving computation throughput by 30%.	

CERTIFICATIONS

IBM Adroit Gen-AI <i>Hands-on training in Generative AI, LLM workflows, and prompt engineering</i>	2025
SmartBridge MERN Full Stack <i>Full-stack development using React, Node.js, Express, and MongoDB</i>	2025

EXTRA-CURRICULAR ACTIVITIES

Tech Team <i>Sports Fest</i>	2025
• Automated scoring system for 1,000+ participants, improving process speed by 35%.	
Outreach Lead <i>OWASP Club</i>	2025
• Led outreach and operations for a CTF event with 70+ participants.	
GTA 5 Custom Multiplayer Server <i>Community Project</i>	Ongoing
• Managed automation infrastructure for a custom multiplayer server with 40,000+ registered players.	