

ARNAV ASHOK

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Education

Vellore Institute of Technology, Bhopal <i>Bachelor of Technology in Computer Science</i>	CGPA: 8.40 <i>2022 – 2026</i>
D.A.V Public School, Bariatu, Ranchi <i>Grade 12 (CBSE)</i>	88.8% <i>2021</i>
Surendranath Centenary School, Ranchi <i>Grade 10 (CBSE)</i>	96% <i>2019</i>

Technical Skills

Backend (Primary): Java, Spring Boot, Spring Security, REST APIs, Microservices, Maven, Kafka
Cloud & DevOps: AWS (SNS, S3, Lambda), Docker, Kubernetes, Git, CI/CD, Linux
AI & Automation: Python, FastAPI, YOLOv8, LLM Integration (OpenAI, DeepSeek), RAG, GraphRAG, n8n
Full Stack: MERN Stack, React.js, Node.js, Express.js
Databases: PostgreSQL, MySQL, MongoDB

Projects

Disaster Management & Alert System | *Java, Spring Boot, REST APIs, AWS SNS/S3, n8n* **Ongoing**

- Architecting a multi-agency disaster coordination platform projected to handle **10,000+ incident reports/month**.
- Designed Spring Boot microservices for ingestion, validation, and priority scoring, improving triage speed by **35%**.
- Automated real-time SMS and Email alerts using AWS SNS, reducing notification latency from minutes to seconds.
- **GitHub:** Disaster Management

NEO-PIGGY — AI-Powered Expense Tracker | *Java, Spring Boot, REST APIs, Machine Learning* **2025**

- Engineered an AI-driven personal finance platform used by **50+ test users** for automated expense tracking.
- Trained a machine learning model achieving **92% accuracy** in expense classification across three user personas.
- Developed Spring Boot microservices for expense analytics, improving computation throughput by **30%**.
- **GitHub:** NEO-PIGGY

AI-Powered Garbage Detection System | *MERN, REST APIs, YOLOv8, n8n*

- Implemented a YOLOv8-based verification pipeline reducing false garbage reports by **45%**.
- Automated complaint workflows, cutting processing time from **24 hours to under 4 hours**.
- Enabled full lifecycle tracking, allowing authorities to close **100% of verified reports** faster.
- **GitHub:** Garbage Redressal

Certifications

IBM Adroit Gen-AI **2025**
Hands-on training in Generative AI, LLM workflows, and prompt engineering

SmartBridge MERN Full Stack **2025**
Full-stack development using React, Node.js, Express, and MongoDB

Extra-curriculars

Tech Team, Sports Fest

- Orchestrated scoring automation for **1000+ participants**, increasing process speed by **35%**.

OWASP Club — Outreach Lead

- Led outreach and operations for a CTF event with **70+ participants**.

GTA 5 Custom Multiplayer Server

- Managed a custom automation server for **40,000+ registered players**.