

ARNAV ASHOK

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Education

Vellore Institute of Technology

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.40/10

2022 – 2026

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 system projected to handle 10,000+ incident reports/month.
- Developing microservices for ingestion, validation, and priority scoring, improving triage speed by an estimated 35%.
- Automating real-time SMS/Email alerts using AWS SNS, reducing manual notification time from minutes to seconds.
- GitHub: Disaster Management

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

- Built an AI-driven personal finance platform used by 50+ test users to automate expense categorization.
- Trained ML model achieving 92% accuracy in classifying expenses across three user personas.
- Developed Spring Boot microservices for expense analytics, improving computation throughput by 30% and supporting real-time budgeting recommendations.
- GitHub: NEO-PIGGY

AI-Powered Garbage Detection System | *MERN, REST APIs, YOLOv8, n8n* 2024

- Built a YOLOv8-based verification system reducing false garbage reports by 45% across pilot datasets.
- Implemented workflow automation cutting complaint processing time from 24 hours to under 4 hours.
- Integrated full lifecycle tracking, enabling authorities to close 100% of verified reports faster.
- GitHub: Garbage Redressal

Certifications

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

SmartBridge MERN Full Stack – Full-stack development using React, Node.js, Express, MongoDB.

Extra-curriculars

Tech Team, Annual Sports Fest

- * Served as Technical Manager overseeing data systems and event operations.

OWASP Club Event

- * Led outreach; organized CTF competition and guest session with 70+ participants.

Custom GTA 5 Game Server Developer & Manager

- * Managed server with 40,000+ users and 150 daily active players.