ARNAV ASHOK

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Education

VIT Bhopal University, Bhopal   2022 – 26
Bachelor of Technology in Computer Science and Engineering   **CGPA: 8.49/10**

Technical Skills

Languages and Frameworks: Java, Spring Boot, Hibernate, React, ExpressJS, FastAPI, YOLOv8, SQL
Architecture and DevOps: Microservices, REST APIs, Docker, Kubernetes, Git, CI/CD, AWS, GCP
Databases and Tools: PostgreSQL, MySQL, MongoDB, Kafka, IntelliJ IDEA, Maven, JUnit, Mockito

Projects

Piggymetrics | *Java, Spring Boot, Spring Cloud, MongoDB, Docker*   **June 2025**
− Extended Piggymetrics, a microservices-based personal finance manager, improving transaction processing speed by 30%.

− Implemented secure REST APIs with Spring Security and JWT authentication, serving 500+ concurrent users without downtime.
− Configured Spring Cloud Config, Eureka, and Zuul for service discovery and API gateway, reducing inter-service latency by 25%.
− Containerized all services using Docker, enabling deployment across 3+ environments seamlessly.
− Enhanced reliability using circuit breaker patterns (Hystrix), reducing service failures by 40% and integrated MongoDB for scalable storage.

Metasfresh ERP | *Java, Spring Boot, Hibernate, PostgreSQL, REST APIs*   **Nov 2024**
− Contributed to Metasfresh, an open-source ERP system, improving order processing efficiency by 20%.
− Refactored Spring Data JPA repositories and optimized queries, reducing database response time by 35%.
− Developed and tested new REST endpoints handling 1000+ requests per day for order and inventory management.
− Worked with large-scale enterprise workflows and applied domain-driven design patterns for maintainable code.

Garbage Redressal System | *React, ExpressJS, MongoDB, YOLOv8, FastAPI*   **March 2025**
− Developed a garbage reporting system enabling 200+ users per week to upload images and track complaints.
− Integrated ML verification to automatically detect garbage, reducing false reports by 45%.
− Implemented workflow for authorities to assign staff, upload cleaned images, and track status, improving complaint resolution time by 30%.
− Automated notifications for users when complaints were resolved, increasing user engagement by 25%.

Certifications

IBM Adroit Gen-AI
− Completed hands-on training on Generative AI tools and prompt engineering.
− Gained experience with real-world AI applications and enterprise use cases.

SmartBridge MERN Full Stack with MongoDB
− Built full-stack applications using React, ExpressJS, Node.js, and MongoDB.
− Developed REST APIs and integrated MongoDB Atlas for scalable deployment.

Extra-curriculars

Tech Team, Annual Sports Fest   *Technical Team Manager*
− Oversaw data management for multiple games and events.
− Managed scores, player records, and event logistics.

OWASP Club Event   *Outreach Team Lead*
− Organized a CTF competition and a speaker session with 70+ participants.
− Led outreach efforts, driving participation and awareness across the university.

Custom Game Server for GTA 5   *Server Developer and Manager*
− Developed and managed a custom game server, handling player database and event coordination.
− Maintained an average of 150 active players with a total of 40,000 registered users.