

# ADITYA SHAHAPURE

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## EDUCATION

**Indiana University**, Bloomington, IN, USA

Dec 2024

*Master of Science (MS) in Computer Science* (Coursework: Software-Engineering, Networks, Cloud-Computing, Data-Mining) GPA: 3.9/4.0

**Savitribai Phule Pune University**, Pune, India

May 2020

*Bachelor of Engineering (BE) in Electronics & Telecommunications* (Coursework: DSA, OOP, ML, Information Theory) GPA: 8.78 /10.0

## TECHNICAL SKILLS

- **Languages:** Python, Java, SQL, HTML, CSS, JavaScript, TypeScript, C++
- **Tools & Platforms:** VS-Code, IntelliJ, Jupyter, PowerBI, Excel, Git, Github, Docker, AWS, Figma, Jira
- **Libraries/Frameworks:** ReactJS, React-Native, NodeJS, Tailwind, Spring Boot, Flask
- **Databases:** Oracle DB, MySQL, MongoDB, Firebase Firestore
- **Certifications:** AWS Certified AI Practitioner

## WORK EXPERIENCE

**Software Engineer Consultant** | *Heartland Community Network, USA*

Jan 2025 – present

- Volunteered to lead client requirements gathering and feasibility analysis for data monetization MVP, conducting stakeholder meetings and researching platform capabilities
- Collaborated with 3 team members to design UI screens in Figma and build proof-of-concept mobile app components with Android Studio, Kotlin and Firebase, utilizing AI development tools (GitHub Copilot, Google Gemini)

**AI Engineer Intern** | *Project-990, USA*

Aug 2024 - Dec 2024

- Performed zero-shot text classification in Python on 270K+ NPO mission statements using RoBERTa (Hugging Face), optimized with DeepSpeed and SLURM on HPC, cutting processing time by 12 hours
- Compared outputs of NLP models (BERT, BART, SpaCy) in Excel to accelerate verification and select the best-fit model
- Utilized Zephyr LLM with few-shot prompting to automate text classification, cutting manual effort by 60%

**Software Development Engineer Intern** | *Soloist, USA*

June 2024 - Dec 2024

- Constructed a music collaboration iOS app with Expo React Native, translating Figma designs and coordinating with UX team and project managers, boosting user engagement
- Engineered 3 new features with Tailwind and React-Navigation; enhancing app usability and navigation flow
- Built favoriting/unfavoriting functionality via 11 backend queries using TanStack and Firebase APIs, improving personalization
- Authored technical documentation identifying code duplication and set up code review processes to improve maintainability
- Accelerated sprint velocity by implementing CI/CD pipelines with GitHub Actions and Jest unit testing, streamlining deployments and bug resolution within an Agile framework

**Software Engineer** | *Vodafone Intelligent Solutions*

Aug 2020 - Apr 2022

- Developed and maintained enterprise-grade REST APIs in Java using Spring Boot for a high-volume order management system (OGW) processing 10K+ daily digital/retail orders
- Ensured backend stability and high availability across 12 RedHat Linux servers by resolving 15+ daily Jira incident tickets using SQL, Oracle DB, and log debugging, maintaining SLAs
- Integrated Kafka-based messaging to support reliable asynchronous workflows between microservices
- Monitored system performance using Kibana, Grafana, Elasticsearch, and Redis, maintaining 99.9% system uptime
- Delivered backend optimizations and defect fixes within Agile sprints; collaborated with QA and DevOps to streamline change management processes, reducing deployment time by 35%

## PROJECTS

**Booking Management System**

- Spearheaded frontend development in a team of 4 for a microservices-based movie booking platform deployed on AWS EKS, focusing on authentication UI and responsive design using ReactJS and CSS
- Contributed to a scalable architecture utilizing Kubernetes for orchestration, MongoDB for data persistence, and RabbitMQ for asynchronous notification handling
- Implemented user-facing features including ticket booking, search functionality, and profile management, interfacing with containerized backend services through RESTful APIs

**Cloud-Enhanced Analysis of Video-Game Reviews**

- Led a team of 3 to build a Python Flask web app with Jinja2 templating, providing purchase recommendations for PS4 games via BERT-based sentiment analysis of Metacritic reviews
- Designed an appealing frontend and integrated web scraping to extract game review data from Metacritic, enabling real-time sentiment analysis with NLP techniques; deployed the app to Microsoft Azure using Git

**Association Rule Mining**

- Partnered in a team of 3 to program a system for creating meaningful associations rules by mining the Emergency Calls data, with an aim to help the 911 dispatchers anticipate emergency types
- Implemented the Apriori Algorithm in Python for interpreting hidden and complex associations between distinct variables, while enhancing the program by using the RDD-based FPGrowth with PySpark

## ACHIEVEMENTS

- First prize, University Hackathon – Developed a Startup Decision Support System, given the corresponding KPI
- Runner-up, Grant Thornton Case Study competition - Devised Change Management strategy for AI integration in business
- 'Star Employee' distinction, VOIS – Recognized for excellent ownership skills and providing technical support in critical times