

ADITI JOSHI

+1 (213) 910-6690 | aajoshi@usc.edu | <https://www.linkedin.com/in/aditi-anant-joshi/> | <https://github.com/aditi-joshi-usc> | <https://aditi-joshi-usc.github.io/portfolio/> | Los Angeles, CA (Open to relocation)

SUMMARY

Full-stack software engineer with a track record of delivering impactful applications in fintech and healthcare. Experienced in building scalable systems, integrating LLMs, and architecting backend services with Java, Python, Spring Boot, and AWS. Brings strong problem-solving skills, end-to-end ownership, and the ability to translate business needs into production-grade solutions

PROFESSIONAL EXPERIENCE

Citigroup - Software Engineer (Technology Analyst) - July 2022 - July 2023 Pune, Maharashtra, India

- Executed JIRA tasks across Agile sprints to support the global migration of a legacy FX application to microservices, contributing to backend, frontend, and testing milestones in a fast-paced team environment
- Refactored backend services using Java, Spring Boot, and PL/SQL; optimized Oracle queries and upgraded legacy logic to improve system performance, scalability, and code quality
- Redesigned and implemented Angular frontend pages to replace legacy JSP interfaces, integrating RESTful APIs, and testing maker-checker flows to ensure secure, role-based access to application pages
- Contributed to daily CI/CD deployments using Jenkins, performed debugging for assigned bug-fix JIRAs, and supported smooth production releases by resolving critical system issues
- Designed and developed a full-stack report monitoring application (React, Java, SQL) that automated financial report validation, saving around 6 hours of manual effort per cycle and enhancing accuracy
- Owned end-to-end tool architecture and mentored an intern, providing technical guidance, code reviews, and documentation via Bitbucket and Confluence to support team productivity

Sanofi - Software/Data Engineering Intern - June 2024 - August 2024 Bridgewater, NJ, USA

- Designed the architecture and engineered a Generative AI-based Q&A application that translates natural language into SQL with 75% accuracy, enabling seamless access to Snowflake data using AWS Bedrock, Titan Embeddings, Athena, OpenSearch, and S3
- Built backend logic and prompt-handling workflows with LangChain, integrating Claude v2, v2.1, v3 Haiku, and Sonnet, and improved query reliability by 40% through model evaluation and structured prompt engineering
- Increased adoption among non-technical users by implementing visualization components, access guardrails, and intelligent fallback handling, ensuring a secure, intuitive interface for interacting with structured data

Citigroup - Software Engineering Intern (Summer Analyst) - May 2021 - July 2021 Pune, Maharashtra, India

- Designed the architecture and co-developed a desktop reconciliation application with a user-friendly UI using JavaFX for frontend and Spring Boot for backend, improving data validation efficiency by 50% for multi-source financial records
- Implemented end-to-end reconciliation logic and batch processing for data from three APIs, ensuring 100% accurate comparisons between legacy and updated business logic with robust discrepancy reporting
- Earned a full-time offer by presenting the tool's business impact to over 30 senior executives, demonstrating strong technical ownership, solution design, and communication skills

University of Southern California - Graduate Course Assistant - August 2024 - Present Los Angeles, CA, USA

CSCI-401: Design and Construction of Large Software Systems

- Led Agile execution as Scrum Master for 10 student teams across two academic semesters, guiding full-cycle development of industry-sponsored software projects and improving delivery outcomes by 40% over 8 months
- Resolved team conflicts and evaluated performance using 360 Peer Evaluations while supporting skill development in Python, SQL, and cloud technologies, resulting in 3 times higher team productivity and 85% technical growth across teams

PROJECTS

XGBoost-powered hybrid recommendation system, custom file-based relational and NoSQL database, IBM-sponsored differentially private ML portal for genomics, and a custom MCP server.

EDUCATION

University of Southern California - Master's, Applied Data Science Aug 2023 – May 2025

Cummins College of Engineering for Women - Bachelor's, Computer Engineering Aug 2018 – May 2022

SKILLS

- Languages & Frameworks: Java, Python, C++, SQL, Angular, React, Django, Streamlit
- Cloud & DevOps: AWS (Glue, Lambda, EC2, Titan, S3), Snowflake, Git, CI/CD, JIRA, Bitbucket, Confluence
- Backend & Data Engineering: REST APIs, MySQL, PostgreSQL, Oracle, MongoDB, Spark, Hadoop, Kafka, Airflow
- AI & Testing: LangChain, Scikit-learn, XGBoost, model tuning, PyTest, JUnit, Postman, Agile, Scrum
- Certifications: Advanced Google Data Analytics (Coursera), Data Science Specialization