Tanay Mehendale

San Jose, CA (open to relocate) | tanay.mehendale@tamu.edu | 979-344-3679 | linkedin.com/in/tanay-mehendale/ | Portfolio

OBJECTIVE

*Software Engineer with 2.5 years of experience building data pipelines and backend systems using Python, SQL, Spark, and AWS. Currently exploring **AI tools and frameworks** (LLMs, RAG, LangChain) to support development and testing. Eager to build scalable cloud applications and contribute to cross-functional engineering teams.*

EXPERIENCE

Graduate Assistant – *Texas A&M University | College Station, TX* **Apr 2024 – May 2025**
- Automated processing and validation of 54 raw data files using Python, reducing manual effort by 60%
- Redesigned the user experience for Texas A&M Graduate & Professional School website using UX principles like usability and consistency, improving navigation for 5,000+ users
- Mentored 25+ students on data modeling best practices and translating business needs into structured datasets during Business Systems Analysis coursework

Software Development Engineer – *LTIMindtree | Mumbai, India* **Jun 2021 – Jun 2023**
- Built ETL pipelines using Apache Spark on AWS, allowing distributed data processing, to unify data from 7 regional systems, reducing report latency by 65%
- Implemented unit and integration tests for ETL logic, improving failure detection during staging by 43%
- Automated schema validation and file checks via Python scripts, cutting weekly data ingestion errors by 57%
- Refactored 35+ SQL and ABAP reports to optimize performance and support supply chain KPIs
- Strengthened release security and compliance by leading coordination for 52+ global deployments and resolving 40+ SDLC audit issues, reducing deployment breaches by 84%

Software Engineer Intern – *LTIMindtree | Mumbai, India* **Jan 2021 – Jun 2021**
- Conducted root cause analysis and regression testing across 46+ support tickets, improving average issue resolution time from 120 minutes to 85 minutes
- Containerized internal QA tools with Docker to standardize environments and streamline feature validation
- Supported Git-based version control and peer reviews to ensure high-quality deployment workflows
- Configured GitHub Actions workflows to enable CI/CD for Python scripts and validation utilities, streamlining testing, deployment and monitoring

EDUCATION

Texas A&M University - *M.S. Management Information Systems | **College Station, TX*** **May 2025**
University of Mumbai - *B.Tech. Electronics & Communications | **Mumbai, India*** **May 2021**

PROJECTS

Point of Sale (POS) System | Link | *AWS EC2, MariaDB, NoSQL, Data Modeling* **Nov 2023**
- Built a cloud deployed POS system using AWS and MariaDB with clustering, sharding, and NoSQL modeling to simulate multi-store operations and optimize query performance by 45%

ResQVision – Emergency Analytics | Link | *React, D3.js, CI/CD, Data Visualization* **May 2025**
- Developed an EMS dashboard using React and D3.js to visualize incident trends

AI powered Data Quality Assistant | *Ongoing* | *Python, pandas, LLM, RAG, LangChain* **Jul 2025**
- Developing a CLI-based AI assistant to identify data quality issues and recommend dataset cleaning steps

Data Warehouse for Retail Analytics | Link | *Microsoft SQL Server, SSIS, Tableau* **Dec 2024**
- Designed a data warehouse to process 1M+ records, enabling reporting across $600M+ transactions

SKILLS

Languages & Frameworks: Python, Java, SQL, HTML, CSS, Bash, Node.js, React
Cloud & Backend: AWS (EC2, S3, Redshift), Spark, MongoDB, MariaDB, PostgreSQL, SQL Server
DevOps & CI/CD: Docker, Git, GitHub Actions, Airflow, GitHub, Shell Scripting
Testing & Quality: Unit Testing (PyTest), Integration Testing, Regression Testing, Root Cause Analysis
Frontend & UX: React, D3.js, HTML, CSS, JavaScript, Bootstrap, Figma
Development Tools: VS Code, Git, Jira, Linux, GitHub Copilot, VS Code, Jupyter Notebook