

# Tanay Mehendale

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## SUMMARY

Software Engineer with 2.5 years of experience building backend systems using React, Python, SQL, ABAP and AWS. Experience in enterprise environments, cross functional collaboration and agile teams. Currently exploring AI frameworks (Google ADK, AWS Strands) to develop AI agents, to improve efficiency and automate manual tasks.

## EXPERIENCE

### Data Engineer Intern – Texas A&M University | Remote, San Jose, CA Aug 2025 – Present

(Python, ETL, AWS, Data Pipelines, Data Modeling, Pandas, Medallion Architecture)

- Architected a Python based ETL pipeline to consolidate 3 data sources into a multi-layer data lake on Amazon S3, reducing data preparation time by 40% and aiding time series analysis
- Developed scalable logic to ingest 2M+ unstructured raw text via Reddit API, implementing regex-based alias matching across 25+ subreddits to expand data coverage by 300%
- Optimized performance by resolving API failures, resulting in 100% data capture reliability and a 34% increase in speed

### Graduate Assistant – Texas A&M University | College Station, TX Apr 2024 – May 2025

(Python, Human Computer Interaction, Mentorship)

- Led 42+ office hours on HCI design principles (usability, accessibility, cognitive design) for 80+ students
- Automated processing and validation of 130+ test papers using Python, reducing manual effort by 60%

### Software Engineer – Clarios | Mumbai, India Jun 2021 – Jun 2023

(SQL, ABAP, RCA, Debugging, Testing, Batch processing, Agile, Cross-functional Collaboration)

- Developed 45+ custom ERP transactions using ABAP with SQL, improving data retrieval speed by 95% for 400+ users
- Diagnosed and resolved 30+ technical support issues via root cause analysis, cutting average resolution time by 35%
- Collaborated with cross-functional global teams to optimize SDLC audits and change management practices, reducing SOX compliance issues by 84% across 52+ releases
- Configured weekly SAP batch jobs using ABAP to export ERP data as CSV, JSON automating 8+ recurring tasks

## PROJECTS

### ApartmentFinder – AI Agent for Relocations | [Link](#) | AI Agents, Google ADK, MCP, Google Cloud, Node.js

- Architected a multi-agent AI system, querying real-time data using MCP that reduces Time-To-Insight by 95%
- Designed an MCP client to calculate distance and times via MCP server for Google Maps API

### ResQVision - Emergency Analytics | [Link](#) | React, D3.js, Node.js, HTML, CSS, JavaScript, TypeScript, Vercel

- Designed an EMS analytics platform using React, reducing insight delays by 60% for dispatch teams
- Configured error-handling by adding CI/CD pre-deployment checks to Vercel via GitHub Actions

### AWS Point of Sale (POS) System | [Link](#) | AWS, EC2, MariaDB, MongoDB, NoSQL, Clustering, Replication

- Built POS system using MariaDB on AWS EC2, focusing on fault tolerance and high availability
- Performed migration to MongoDB to optimize read performance by 45%

### Real Time Sign-Up Health Monitor | [Link](#) | PySpark, Kafka, Airflow, Cassandra, Docker, Git, GitHub

- Built a real-time sign-up health pipeline that detects major drops (>50%) within 2 minutes in local tests, resulting in 90% faster detection than 60min batch checks

### Dominicks Finer Foods Retail Data Warehouse | [Link](#) | SQL Server, SSIS, SSRS, Tableau

- Designed a Kimball data model for SQL Server data warehouse to analyze \$600M+ retail sales patterns across 2 data marts and built 4 reports using SSRS, Power BI and Tableau

### CollEdge - Secure Onboarding | [Link](#) | Product Design, User Research, Prototype, Figma, UI/UX

- Designed a secure user-centric onboarding process, designed 8+ KPIs and created UI mockups using Figma

## 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

## SKILLS

Certifications: [AWS Solutions Architect - Associate](#), [Professional Scrum Master](#), [Assoc. Data Engineer](#)

Coding: Python, SQL, Java, C, C++, HTML, CSS, JavaScript, Git, R, Shell; Database: MySQL, MariaDB, MongoDB, Cassandra

Cloud: AWS, EC2, Athena, RDS, Redshift, S3, Docker; AI: LLM, Google ADK, LangChain, RAG, Context Engineering, MCP

Data Engineering: ETL, SQL Server, SSIS, Airflow, Snowflake, Spark, Kafka; BI Tools: Tableau, SSRS, Power BI