Samit Shah

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EDUCATION

Master of Science in Software Engineering, Arizona State University　　　　　　　　　Aug 2023 - May 2025
Courses: Advanced Data Structures and Algorithms, Foundations of Software Engineering, **Generative AI Fundamentals**
Bachelor of Technology in Computer Engineering, NMIMS University　　　　　　　　　Aug 2019 - June 2023
Courses: **Software Development lifecycles (SDLC)**, Analysis of Algorithms, Distributed systems, Database Management Systems

ACHIEVEMENTS

- Won **1st place out of 38 teams at DevHacks hackathon** under the "AI for Innovation" track for GenAI project 'Soul-Support'
- Successfully earned the certifications through proctored exams: Microsoft Power Platform, Microsoft Azure Data, Microsoft SQL, and Tableau Desktop Specialist
- Achieved 1st place in the Intra-university competition for Healthcare Project 'Panacea' and published a paper for the same

TECHNICAL SKILLS

Languages/Technologies: - GO, Python, Java, SQL, .Net, Unix, Linux, C#, C++, **JavaScript, TypeScript, HTML, CSS**, AWS, Git, Terraform
Frameworks/Databases: - MySQL, MongoDB NoSQL, Redis, Firebase, Flask, React, Springboot, Node.js, GraphQL, Hadoop, Airflow
Platforms/Tools: - Tableau, Azure, AWS, Kafka, Power BI, **JIRA**, Kubernetes, Rest API, Docker, Excel, LLM's (llama 3, GPT-4), GCP
Testing Frameworks/Development Practices: - JUnit, Cucumber, Selenium, Jenkins, Agile, CI/CD, JSON, Spark

PROFESSIONAL EXPERIENCE

Software engineer Intern: RoundTechSquare, Remote, USA　　　　　　　　　　　　　Jan 2025 - May 2025

- Deployed containerized microservices (Node.js/React) handling **250+ sessions** with median latency **<90 ms**.
- Built **GPT-4** intent mapper that processed **3,500+ daily messages across 180 intents**, optimizing availability and throughput.
- Implemented observability with **server metrics & logging**, enabling performance monitoring in a distributed environment.

Software engineer Intern: NOMURA, Mumbai, India　　　　　　　　　　　　　　　Jun 2022 - Nov 2022

- Optimized 35 Informatica workflows, cutting ETL runtime from 120 mins→22 mins making it 81% faster.
- Orchestrated a **data migration strategy** with **ETL pipelines** achieving **95% data integrity**, enabling accurate forecasting.
- Automated workflow performance tests, boosting resiliency for **multi-TB datasets**.

Data Engineer Intern: CBIA, Mumbai, India　　　　　　　　　　　　　　　　　Nov 2020 - Jun 2021

- Devised a scalable Data Warehouse using **Azure Pipelines & SQL Server**, streamlining **enterprise-wide reporting** and enabling **real-time analytics** for key stakeholders.
- Integrated fragmented databases into a **centralized repository**, enhancing **query response time by 72%**, reducing **redundant lookups**, and improving **data retrieval efficiency.**
- Implemented an ETL automation pipeline to integrate **Planning & Resource Management data**, reducing **manual effort by 20 hours/month per project** while optimizing **cost to $3 per million-row run**, improving **operational efficiency.**
- Crafted interactive Power BI dashboards automating **real-time insights**, eliminating **60% of manual reporting workload**, and accelerating **data-driven decision-making.**

Artificial Intelligence Developer intern: CBIA, Mumbai, India　　　　　　　　　　Apr 2019 - Jul 2019

- Deployed **ML-powered analytics** that improved customer insights by **20%**, enabling smarter inventory management.
- Developed **NLP-driven pipelines in Python (NER, text classification)** to extract insights from unstructured datasets, reducing manual reporting by **60%** and improving predictive decision accuracy for business users.
- Architected trained models into production-grade **dashboards and REST APIs**, delivering **low-latency predictions** with **scalable deployment on Azure**, ensuring fault tolerance and seamless access for stakeholders.

RELEVANT PROJECTS

Soul-Support: Agentic LLM powered AI-mental health companion　　　　　　　　　　　Mar 2025

- Led end-to-end build of a full-stack web app in React and Node.js, streaming real-time 3-D avatar conversations by embedding Blender WebGL scenes and **the Gemini LLM API**; sustained **120+ user messages/min** with sub-200 ms latency.
- Designed a **multi-agent pipeline (context keeper, crisis detector, emotion logger)** with **97% precision** in risk detection, auto-dialing emergency contacts within 5 s, and recording **15 K+ journal entries/day** for sentiment analysis.
- **Won 1st place** out of **100+ teams** at *DevHacks 2025* for scalability, innovation, and deployable impact.

Panacea: Enhanced Electronic Health Records System　　　　　　　　　　　　　　Jan 2022

- Engineered **HIPAA-compliant ETL pipelines** across distributed hospital databases, reducing patient record retrieval latency by **60%** and ensuring **secure, fault-tolerant data access**.
- **Applied NLP (NER + disease prediction models) in Python/Azure** to improve diagnostic accuracy, deploying models with low-latency inference suitable for real-time clinical decision support.
- Delivered **REST APIs** with high-throughput design backed by **Azure SQL + monitoring dashboards,** enabling reliability, consistency guarantees, and observability for healthcare providers.