

# 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

### Bachelors 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 **1<sup>st</sup> place out of 38 teams at DevHacks hackathon** under the “AI for Innovation” track for the 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:** - Python, Java, SQL, .Net, Unix, C#, C++, JavaScript, TypeScript, HTML, CSS, AWS, Git

**Frameworks/Databases:** - MySQL, MongoDB NoSQL data store, Redis, Firebase, Flask, React, Springboot, Node.js, Tailwind

**Platforms/Tools:** - Tableau, Azure, AWS, Kafka, Power BI, JIRA, Rest API, SharePoint, Docker, Excel, LLM’s (Llama 3, GPT-4)

**Testing Frameworks/Tools:** - JUnit, Cucumber, Selenium

## PROFESSIONAL EXPERIENCE

### Software engineer Intern: RoundTechSquare, Remote, USA

Jan 2025 - May 2025

- Led a cross-functional team of 4 interns to design and deploy a generative-AI chatbot, integrating OpenAI GPT-4 APIs and engineering an intent-mapping core that now handles **3,500+ user messages per day** across **180 distinct intents**
- Built the React chat UI, persistent conversation history, and role-based admin console, backed by a containerized microservice architecture that supports **250 concurrent sessions** with median latency under **90 ms**

### Software engineer Intern: NOMURA, Mumbai, India

Jun 2022 - Nov 2022

- Constructed 35 scalable workflows in Informatica, applying **SQL query optimization** to cut processing time from 120 minutes to **22 minutes (81% improvement)**, accelerating financial data reporting
- Orchestrated a **data migration strategy** leveraging **Adaptive Planning & ETL pipelines**, achieving **95% data integrity**, ensuring seamless **financial forecasting** with minimal discrepancies

### 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**

### Business Intelligence Developer intern: CBIA, Mumbai, India

Apr 2019 - Jul 2019

- Engineered Tableau-powered data visualizations that increased **customer insights by 20%**, driving **smarter inventory management** for a **luxury watch retailer** and **enhanced student analytics** for a UK business school
- Collaborated with product managers & data analysts to transform **business challenges into data-driven solutions**, translating **raw datasets into interactive dashboards**, improving **executive decision-making**

## RELEVANT PROJECTS

### Soul-Support: Agentic 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.
- Engineered a three-agent pipeline—context keeper, crisis-escalation detector, and emotion-journal logger—achieving 97 % precision in flagging high-risk utterances, auto-dialing emergency contacts within 5 s, and recording **15 K+ journal entries/day** for sentiment analysis
- Won **1st place out of 38 teams** at DevHacks 2025 (“AI for Innovation” track) for technical originality, social impact, and deployable prototype quality

### Panacea: Enhanced Electronic Health Records System

Jan 2022

- Designed an **NLP-powered diagnostic assistant** using **Python & Azure**, leveraging **Named Entity Recognition (NER)** and **disease prediction models**, improving **medical diagnosis accuracy**
- Formulated secure ETL pipelines integrating **medical knowledge bases**, ensuring **HIPAA-compliant data security** while **reducing retrieval time** for patient records