

SARVESH SHAH

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SUMMARY

Full-stack Cloud and AI Developer with 2+ years of experience across AWS, React, Node.js. Built and deployed scalable web and cloud applications, reducing latency by up to 95% and automating CI/CD pipelines across multiple environments. Integrated LLMs like OpenAI GPT with LangChain to accelerate internal tool performance and search accuracy.

EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems

New York, NY

Master of Science (MS) in Computer Science | GPA: **4.00 / 4.00**

May 2026

Relevant Coursework: **Operating Systems, Computer System and Concepts, Java DS, Database Management Systems, Artificial Intelligence, Parallel Computing, Algorithms & Computing Theory, ML, Mobile Application Development**

Mumbai University, KJ Somaiya Institute of Technology

Mumbai, India

BTech in Electronics and Telecommunication | GPA: **8.2 / 10.0**

May 2022

Relevant Coursework: **Cloud Computing & Security, Natural Language Processing, Web Design, Management Information Systems, Image Processing & Machine Vision, Digital Circuit Logic Design**

PROFESSIONAL EXPERIENCE

Tata Consultancy Services

Mumbai, India

Systems Engineer – AWS DevOps Cloud Developer

July 2022 - August 2024

- Re-architected a high-traffic e-commerce platform, reducing latency from 15-20 seconds to under 500 milliseconds by leveraging NOSQL Database **DynamoDB's efficient pagination** and reusable data-fetching functions.
- Led a team of 5 and optimized AWS cloud architecture with **Auto Scaling and Load Balancing**, improving system availability and cutting operational costs by 20%. Enhanced cloud security using **IAM best practices**, enforcing multi-factor authentication, and applying the principle of least privilege to mitigate potential breaches.
- Built serverless applications with **AWS Lambda, API Gateway, and DynamoDB**, reducing maintenance overhead and ensuring 99.99% data availability with disaster recovery solutions. Led data migration to SQL based **Amazon RDS and DynamoDB**, for better development increasing data retrieval speeds by 40% and reducing maintenance costs by 25%.
- Implemented **AWS GenAI-powered chatbot**, improving customer engagement and support efficiency by 40% using vector databases for Jira and GitHub Docs integration.

PROJECTS

Early Detection of Heart Disease Using Decision Tree and Naïve Bayes

February 2025 – April 2025

- Developed supervised classification models using **Scikit-learn** to predict cardiovascular disease risk based on 300K+ health records. Applied **data cleaning, label encoding, normalization, SMOTE, and K-Fold Cross Validation**.

Find Your Flight - [Github](#)

January 2025 – March 2025

- Developed a full-stack flight search platform with AWS-hosted frontend. Integrated filterable results with PostgreSQL, used React Router for page transitions, and deployed using CI/CD via GitHub Actions.

AWS Databases: DynamoDB Query vs Scan Optimization (RESEARCH)

September 2024 – December 2024

- Benchmarked and analyzed performance between Scan and Query operations. Implemented Global Secondary Indexes and parallel scans to boost cost-efficiency and speed.

Web Application for Sentimental Analysis with NLP – (PUBLISHED) [Paper](#) - [Github](#)

January 2022 - April 2022

- Built a Flask-based web app to classify sentiment from product reviews. Achieved 90% accuracy using NLP models and visualized data insights using Python libraries.

Stock Price Manipulation Detection (CASE STUDY)

November 2021 – January 2022

- Conducted a case study using GANs and LSTMs to detect stock anomalies from time-series data, focusing on fraudulent activity simulation and anomaly prediction.

TECHNICAL SKILLS

Programming & Frameworks: Python, Java, C++, SQL, Bash, HTML, CSS, JavaScript, Flask, Django, React, Bootstrap, Tailwind CSS

Cloud Platforms: AWS (Lambda, EC2, RDS, S3, DynamoDB, IAM, CloudFormation), Azure, Google Cloud

AI/ML: PyTorch, TensorFlow (basic), Scikit-learn, Spacy, TextBlob, GANs, LSTM, Jupyter, Pandas, NumPy, Matplotlib, Seaborn, NLP, Sentiment Analysis, Data Preprocessing

DevOps & Tools: Git, GitHub Actions, CI/CD, Agile Methodology, Unit Testing, JIRA

Databases: MySQL, PostgreSQL, MongoDB, DynamoDB

Awards: National Cyber Olympiad International 45th Rank (February 2018)

CERTIFICATIONS

Microsoft Certified Azure Developer Associate (2023), Google Associate Cloud Engineer (2023) AWS Gen AI Essentials (2023)