SARVESH SHAH

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SUMMARY

Full-stack Cloud and AI Application Developer with 3+ years of experience in AWS, React, Node.js, and Django. Skilled in building scalable solutions, integrating LLMs like OpenAI GPT with LangChain, and automating deployments via CI/CD. Passionate about intelligent systems and currently pursuing AWS Certified Developer – Associate.

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.
- 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 utilizing 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)