Harshit Viren Shah

+1(602) 596-5068 | hvshah97@gmail.com | LinkedIn | GitHub

EDUCATION

- **Arizona State University** — Tempe, AZ
  Master of Science, Computer Science CGPA: 3.93/4 — *Aug 2022 - May 2024*
  - Relevant coursework: Software Design, Software Requirements and Specifications, Software Testing
- **K. J. Somaiya College of Engineering, University of Mumbai** — Mumbai, India
  Bachelor of Technology, Computer Engineering CGPA: 3.25/4 — *Aug 2015 - May 2019*
  - Relevant coursework: Analysis Of Algorithms, Data Structures, Object Oriented Programming, Machine Learning

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript, C, C++, C#, SQL, R, HTML, CSS, TypeScript, GraphQL
- **Development Frameworks:** Spring, Reacts.js, Django, Flask, Node, Angular, Express, Selenium, Puppeteer
- **Datastores:** MySQL, SQL Server, MS SQL, MongoDB, Azure Data Lake, DynamoDB, Elasticsearch
- **Software Tools:** Git, Docker, Jenkins, Pandas, Numpy, Scikit, Kafka, Sharepoint, Salesforce
- **Certifications:** ISTQB CTFL, Azure AZ-900
- **Cloud Tools:** Azure Pipelines, ADF, Data Lake, Blob Storage, Azure App Service, AWS Opensearch

EXPERIENCE

- **WTW** — Mumbai, India
  Software Engineer 1 — *July 2019 - July 2022*
  - Developed an automated system, facilitating onboarding of 2500 clients saving 5 days of manual effort
  - Streamlined support processes, resulting in a reduction of Service Level Agreements (SLAs) to just 1 day
  - Ensured seamless data consolidation, enabling centralized storage and error-free sharing across systems
  - Pioneered client administration by introducing a client portal, reducing time taken by more than 90%
  - Designed automated regression testing packs, leading to a reduction in testing time from 3 days to 2 hours
  - Created Azure Apps and Pipelines, automating background processes and minimizing deployment time
  - Integrated SharePoint and Salesforce systems, improving turnaround time from 5 days to just 30 minutes
  - Led Scrum teams, consistently achieving a sprint velocity of 20 story points
  - Awarded the extra miler award, for designing developing and deploying automated on-boarding systems

PROJECTS

- **LogicAttack: Adversarial Attacks using Propositional Logic** [HuggingFace, Python] — *Aug 2023*
  - Investigated vulnerabilities of Large Language Models (LLMs) through the application of propositional logic
  - Executed logic-based attacks on ROBERTa, BERT, and FLAN-T5, achieving a 90% success rate in the attacks
- **Reddit API wrapper** [Java] — *July 2023*
  - Developed a user-friendly wrapper class for the Reddit API, enabling easy accessibility for all users
  - Designed the wrapper to efficiently retrieve Reddit data based on specified tags and criteria
- **DDoS Attack Detection Using Machine Learning** [Python] — *May 2023*
  - Engineered a DDoS detection system, analyzing TCP and UDP request features and identifying 12 crucial features with strong differentiating capabilities
  - Applied Naive Bayes, Decision Tree Classifiers acquiring over 90% accuracy for detecting DDoS attacks
- **Covid Tracker** [React, Django] — *Jan 2023*
  - Designed a dashboard,tracking daily COVID-19 infections at various geographical levels over the world
  - Integrated real-time APIs to, ensuring up-to-date information on COVID-19 infection
- **Image Captioning using Neural Networks for Social Media** [TensorFlow, Python, PHP] — *May 2019*
  - Implemented a Deep Recurrent Convolutional Neural network with Long Short-term Memory RNN to identify image context and suggest captions, integrable with four major social media platforms
  - Achieved a BLEU Score of 55.8 on the generated captions, equivalent to human-legible speech