

Harshit Viren Shah

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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 July 2019 - July 2022
 - Developed automated C#/Azure client onboarding system for 2,500+ clients, boosting satisfaction and efficiency
 - Streamlined support processes, improving incident resolution by reducing SLAs from 5 days to 1 day,
 - Designed database system, removing data duplication and ensuring error-free data sharing across systems
 - Pioneered a client centric portal, reducing turnaround time by over 90%, enhancing client engagement
 - Designed automated regression testing packs, accelerating the QA cycle from 3 days to 2 hours
 - Created Azure Apps, scripts, and pipelines to automate background processes and application deployments, minimizing deployment timelines
 - Awarded the extra miler award, for designing, developing and deploying automated on-boarding systems

PROJECTS

- **LogicAttack: Adversarial Attacks using Propositional Logic** [HuggingFace, Python] [\[GitHub\]](#) Aug 2023
 - Conducted in-depth research into LLM vulnerabilities using propositional logic, identifying key weaknesses in ROBERTa, BERT, and FLAN-T5 models
 - Executed logic-based attacks(eg-Modus Tollens) on LLM's, achieving a 90% success rate in the attacks
- **Reddit API wrapper** [Java] [\[GitHub\]](#) July 2023
 - Developed a user-friendly Java-based wrapper for the Reddit API, simplifying data retrieval for users
 - Designed the wrapper, simplifying data retrieval by efficiently querying based on specific tags and criteria
- **DDoS Attack Detection Using Machine Learning** [Python] May 2023
 - Engineered a DDoS detection system, classifiers to analyze TCP/UDP request features to detect DDoS attempts
 - Applied Naive Bayes and Decision Tree, achieving over 90% accuracy in identifying attacks
- **Covid Tracker** [Angular , Django] [\[GitHub\]](#) Jan 2023
 - Designed a React and Django-based dashboard for real-time tracking of global COVID-19 infections, integrating APIs for up-to-date data, enhancing public awareness and response strategies
 - 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] [\[GitHub\]](#) 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