

Harshit Viren Shah

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EDUCATION

- Master of Science, Computer Science, Arizona State University** (CGPA: 3.83) Aug. 2022 - Current
- Relevant coursework: Software Design, Software Requirements and Specifications, Software Testing
- Bachelor of Technology, Computer Engineering, University of Mumbai** Jul. 2015 - May. 2019
- Relevant coursework: Analysis Of Algorithms, Data Structures, Database Management, Machine Learning

PROFESSIONAL EXPERIENCE

- Software Engineer 1, WTW (Mumbai, India)** Jan. 2020 - Jul. 2023
- Developed an automated system that facilitated the on-boarding of 2500 clients into the program
 - Streamlined support processes, resulting in a reduction of Service Level Agreements to 1 day from 1 week
 - Ensured seamless data consolidation, enabling centralized storage and error-free sharing across systems
 - Integrated SharePoint and Salesforce systems, improving turnaround time from 5 days to just 30 minutes
 - Pioneered client administration by introducing a client portal, reducing time taken by more than 90%
 - Led Scrum teams, consistently achieving a sprint velocity of 20 story points
- Trainee Engineer, WTW (Mumbai, India)** Jul. 2019 - Dec. 2020
- 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

TECHNICAL SKILLS

Programming Languages	Java, Python, JavaScript, SQL, R, PHP, HTML, CSS, C, C++, C#, TypeScript
Frameworks	Spring, Django, Flask, Node, Angular
Databases	MySQL, SQL Server, MS SQL, MongoDB, PostgreSQL
Tools	Git, Docker, Jenkins, Pandas, Numpy
Certifications	ISTQB CTFL, Azure AZ-900
Other Tools	Tableau, GCP, AWS; Linux, Windows, Mac (OS)
Cloud Tools	Azure Pipelines, ADF, Data Lake, Blob Storage, Azure App Service

PROJECTS

- Image Captioning using Neural Networks for Social Media** (TensorFlow, Python, PHP)
- Implemented a Deep Recurrent Convolutional Neural network to identify image context and suggest captions, integrable with four major social media platforms
 - Achieved a BLEU Score of 55.8, equivalent to human-legible speech
- UML Modeling Tool for Creating Class Diagram** (Java)
- Crafted a user-friendly functionality, streamlining generation of class diagrams and source code
 - Utilized Software Design patterns to optimize data processing speed by 35% and code quality
- LogicAttack: Adversarial Attacks using Propositional Logic** (Huggingface, Python)
- 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
- DDoS Attack Detection Using Machine Learning** (Python)
- Designed a DDoS detection system using Python, which analyzed TCP and UDP request features and identified 12 crucial features with strong differentiating capabilities
 - Applied Naive Bayes, Decision Tree Classifier acquiring over 90% accuracy for DDoS identification
- Covid Tracker** (Django, React)
- 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 infections
- Reddit API Wrapper** (Java)
- 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.

ACHIEVEMENTS

- Received "Extra Miler Award" at WTW for designing and developing a centralized data storage
- Mentored high school students, teaching programming and inspiring them to pursue computer science