Akshat Shah

Binghamton, NY | 607-370-8772 | ashah85@binghamton.edu | linkedin.com/in/akshatnshah | github.com/anshah85

PROFESSIONAL SUMMARY

Experienced Software Engineer with over 8 years of expertise in designing, developing, and testing cloud-based applications across desktop and mobile platforms. Proven track record in driving Agile development, managing end-to-end testing, and delivering scalable solutions using microservices architectures in the financial services domain. Adept at integrating CI/CD pipelines, ensuring compliance with industry standards, and collaborating with cross-functional teams to optimize product quality and operational efficiency.

EDUCATION

Binghamton University Aug. 2022 – Dec. 2024
Master of Science - Computer Science *Binghamton, NY*

Gujarat Technological University Jul. 2010 – May 2014
Bachelor of Engineering - Instrumentation and Control Engineering *Gandhinagar, India*

SKILLS

Programming Languages: **Java, Python**, C, C++, SQL, JavaScript, TypeScript, HTML5, CSS3
Frameworks: **Spring Boot**, Spring MVC, Hibernate, REST, JUnit, Next.js, Flask, Flutter, Selenium, Karate, TestNG
DevOps Technologies: AWS, GCP, Azure DevOps, Docker, Kubernetes, PowerShell, Jenkins
Databases: PostgreSQL, SQLite, MongoDB, MySQL, Redis, Amazon DynamoDB, Firebase
Tools: Git, GitHub Actions, Jira, Bamboo, Microservices, Nginx, Apache Kafka, Kibana, Prometheus, Rancher, Openshift

WORK EXPERIENCE

Sr. Software Engineer (Client: ABSA Bank) Apr. 2019 – Aug. 2022
Infosys Limited | Java, Spring Boot, REST APIs, PostgreSQL, Swagger, JUnit, Git, Jenkins, Docker *Cape Town, South Africa*
- Developed an automated vehicle finance system using Java and Spring Boot, optimizing the end-to-end loan origination process for faster approvals and seamless integration with third-party services
- Implemented Agile methodology to coordinate sprints, reducing project delivery time by 25% and enhancing collaboration across teams of developers and QA engineers
- Developed robust API integrations for third-party services, including credit score providers and fraud detection systems, improving borrower qualification speed by 50% and enhancing security
- Designed and implemented document collection workflows using REST APIs for automated processing of customer stipulations (e.g., proof of income, insurance), reducing manual effort by 40%
- Led the design of PostgreSQL database architecture, resulting in a 35% increase in data retrieval speed and improved scalability for handling high transaction volumes in auto loan processing
- Automated API documentation generation with Swagger, reducing the time required for developers and testers by 25% and ensuring up-to-date API references throughout the development lifecycle

Software Engineer (Client: ABSA Bank) Oct. 2014 – Mar. 2019
Infosys Limited | Java, Spring Boot, Rest APIs, IBM RIT, JavaScript, Postman *Cape Town, South Africa*
- Developed automation scripts for 90% of regression tests concerning ISO 20022 payment messages business rules
- Created automation scripts to simulate real-time and batch transactions, including handling 50,000 transactions in a single batch file, to facilitate inter-bank testing simulations
- Designed API validation scripts using Postman, accelerating issue resolution by 30% through early bug detection
- Refactored end-to-end automation test cases in IBM RIT, adapting them by 30% to accommodate feature updates

PROJECTS

Encrypted Bank Server | *Java, Public Key Encryption, Digital Signatures* Apr. 2024
- Developed a three-tier architecture bank app using public key encryption & digital signature for security
- Designed the server to handle multiple client connections concurrently and encrypted data storage

Athleisure - An Agility Tracker | *Flask, Python, OpenCV, JavaScript, PostgreSQL, Streamlit* Feb. 2024
- Developed a robust agility and reaction training platform with integrated data analytics using PostgreSQL; maintained a database of over 2,000 training sessions, providing actionable insights for continuous improvement and performance tracking

Artist Popularity Analysis | *Flask, Python, React, JavaScript, Git* Aug. 2023 - Dec. 2023
- Crafted a data pipeline architecture with Python and Flask to collect and process over 10,000 data points from Reddit and Spotify APIs in real-time
- Analyzed artist popularity with a 95% accuracy using Spotify metrics and sentiment analysis of 5,000+ Reddit posts/comments

LEADERSHIP SKILLS

Graduate Research Assistant :- Analyzing Facial Expressions and Emotions in 3D Space with Multimodal Sensing
Graduate Teaching Assistant :- Object Oriented Design with Design Patterns (INFO-542X)