SHREY SHAH

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WORK EXPERIENCE

Country Financial | Champaign, USA

Software Engineer II   **May 2024 — Present**
- Engineered **GitLab** pipelines to automate and schedule **100+** API test cases, resulting in seamless execution and reporting
- Generated a **Python** script that increased API and UI regression test coverage by **75%** using **Robot** Framework

Software Engineer Co-op   **Jan 2024 — May 2024**
- Managed a team of **4** to implement secure and centralized image registry solutions using **Docker**, **GitLab**, and **Azure Registry**
- Architected a **GitLab** pipeline for image vulnerability scanning and alerting, ensuring compliance and system security
- Designed and developed a navigable WCAG-compliant **Angular/Spring Boot** single-page application for the underwriting team, reducing policy review times by **25%**

Yahoo | Champaign, USA

Software Engineer Intern II   **May 2023 — Aug 2023**
- Automated **AWS** EMR cluster deployment with **Python** CLI and Boto3 SDK via CLI, decreasing manual effort by **70%**
- Enhanced productivity by **35%** using **AWS** (S3, EC2, VPC) and created CloudFormation template for IAM role provisioning
- Streamlined manual verification from 10+ minutes to **30s** flow with intuitive feedback, easing Grid team's support burden
- Delivered a **Chef** recipe and **Ruby** script for agent installation across **50,000+** Hadoop hosts for quick deployment

Barclays | Pune, India

Software Engineer   **Jul 2019 — Jul 2022**
- Led migration to **OpenShift** v4 for payment inquiry service, reducing pod start time by **20%** and improving compliance adherence
- Designed and implemented **REST APIs** with **Spring Web**, achieving **80%** code coverage using **JUnit** for robust testing
- Built a **Java/Spring Boot** payment validation service for JSON/XML payloads using **Kafka**, microservices, and multithreading, achieving **10x** performance boost in an **Agile** environment
- Enabled workload virtualization to VMs and configuration management via **Chef** to facilitate resiliency and horizontal scaling
- Improved **SQL** query performance by **25%** through optimization, **AppDynamics** observability and enhanced log monitoring with **Elasticsearch**, minimizing debugging time by **30%**
- Upgraded **CI/CD** pipelines with **Jenkins** and **Shell scripts** to refine software builds and facilitate **1-click** deployment
- Collaborated with Level 2 team for seamless production releases, and mentored a team of **40+** on Chef technology

Intern Analyst   **May 2018 — Jul 2018**
- Formulated 6 test scenarios for trade booking models using **JUnit** and **Test Driven Development**, reducing defects by **10%**
- Programmed a **Java** module for a trading utility, simplifying data fields and enabling interconversion of 9 message types

SKILLS

Languages: Java, Python, SQL, Ruby, Shell, JavaScript, HTML/CSS
Frameworks: Spring Boot, Angular, Django, REST, Scrum
AI/ML: Scikit-learn, TensorFlow, Keras, NLTK, OpenCV
DevOps: Git, Chef, Jenkins, GitLab, OpenShift, Docker

Databases: Oracle, MSSQL, PostgreSQL, MongoDB, Neo4j
Cloud: Amazon Web Services, Microsoft Azure
Analytics: Excel, R, Tableau, Power BI
Tools: Kafka, Postman, Maven, IDEs, Jira, Confluence

EDUCATION

University of Illinois at Urbana-Champaign, USA   **Aug 2022 — May 2024**
Master of Science in Information Management — **3.96/4.0**

Sardar Patel Institute of Technology, **University of Mumbai**, **India**   **Jul 2015 — May 2019**
Bachelor of Engineering in Computer Engineering — **3.89/4.0**

PROJECTS & PUBLICATIONS

CollaBro: Code Collaboration [Link]   **Jul 2024 — Present**
- Developed a real-time code collaboration platform using **React.js**, Node.js, Express.js, and WebSockets, enabling developers to share, edit, and sync code efficiently

Vogue Vaani [Link]   **Jun 2023 — Aug 2023**
- Modeled a Streamlit application to recommend top 5 fashion items using ResNet50 for image classification, achieving 0.88 F1-score with OpenCV-driven image augmentation on a 44K+ image dataset

Leetcode Problem Search Application [Link]   **Apr 2023 — May 2023**
- Created a Django web app for Leetcode problem retrieval with 200ms response time. Secured CRUD operations via role-based access control on AWS RDS (Aurora PostgreSQL), for high availability and 99.99% uptime

Wireless IoT based Solution for Women Safety in Rural Areas (doi: 10.1109/ICCES45898.2019.9002392)   **Feb 2020**

LEADERSHIP & VOLUNTEERING

- MS/IM Program Representative: Assisted in course learnings, and student opinions, resulting in 20% increase in engagement
- Represented Payments Hub Team at Barclays 2022 Tech Expo, presenting the adoption of microservices architecture
- Guided 80+ students in Programming Methodology course as TA to Pr. Prachi Gharpure, conducting lectures and labs