

# SHREY SHAH

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## WORK EXPERIENCE

### Country Financial | Champaign, USA

#### Software Engineer II

May 2024 — Present

- Generated a script to automate the API and UI regression test suite coverage to **75%** using **Python** and **Robot**

#### Software Engineer Co-op

Jan 2024 — May 2024

- Led a team of **4** in exploring secure and centralized solutions for image registry utilizing **Docker**, **GitLab**, and **Azure Registry**
- Implemented **GitLab** pipeline to facilitate vulnerability scanning and alerting to distinguish secure and compromised images
- Designed a componentized and navigable **Angular/Spring** single-page application for underwriting team, integrating WCAG principles for user focus, resulting in a **25%** reduction in policy review times

### Yahoo | Champaign, USA

#### Software Engineer Intern II

May 2023 — Aug 2023

- Improvised CLI to automate **AWS** EMR cluster deployment, reducing manual effort by **70%** via **Python** and Boto3 SDK
- Enhanced productivity by **35%** using **AWS** (S3, EC2, IAM) and created CloudFormation template for IAM role provisioning
- Integrated GitHub repository creation and pull request functionality, cutting users' setup time by **40%** using **CI/CD**
- Streamlined manual verification from 10+ minutes to a **30s** flow with intuitive feedback, easing Grid team's support burden
- Delivered a **Chef** recipe for systematic installation of automation agent on **50,000+** Hadoop hosts using **Ruby** script

### Barclays | Pune, India

#### Software Engineer

Jul 2019 — Jul 2022

- Initiated migration to **OpenShift** v4 for payment inquiry application, reducing pod start time by **30%** adhering to compliance
- Devised **REST APIs** for payment inquiry with technical documentation, achieving **80%** code coverage using **Java 8** and **JUnit**
- Built a **Java/Spring Boot** payment validation service for JSON/XML payloads, with **Kafka** based microservices architecture, and multithreaded reactive programming, achieving **10x** performance improvement
- Leveraged **Elasticsearch** and **Kibana** for monitoring logs of payment failures in QA reducing debugging time by **20%**
- Optimized **Oracle SQL** queries, boosting load test by **25%**, and using AppDynamics for real-time performance monitoring
- Enabled workload **virtualization** to VMs involving MQ changes, file transfer, and configuration management via **Chef** to facilitate resiliency, consistency, and horizontal scaling
- Automated CI/CD utilizing **Jenkins**, **Git**, and **Shell scripts** to refine software build pipeline and support **1-click** deployment
- Collaborated with Level 2 team to ensure seamless releases to production with zero critical issues, and mentored a team of **50+** through knowledge transfer sessions for Chef technology

#### Intern Analyst

May 2018 — Jul 2018

- Formulated 6 test scenarios for trade booking models with **JUnit** and **Test Driven Development** lowering defects by **10%**
- Programmed a **Java** module for in-house trading utility, simplifying fields and enabling interconversion of 9 message types

## SKILLS

**Languages:** Python, Java, SQL, Ruby, Shell, HTML/CSS, JavaScript

**Frameworks:** Spring Boot, REST, Angular, React, Django, Scrum

**AI/ML:** Scikit-learn, TensorFlow, Keras, NLTK, OpenCV

**DevOps:** Git, Chef, Jenkins, GitLab, Kafka, OpenShift, Docker

**Databases:** Oracle, MSSQL, PostgreSQL, MongoDB, Neo4j

**Cloud:** Amazon Web Services, Microsoft Azure

**Analytics:** Excel, R, Tableau, Power BI, Talend

**Others:** Postman, Maven, VSCode, Rally, 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

Jun 2024 — Present

- Develop an online platform for real-time code collaboration among developers to improve proficiency with sharing, editing, chat, and quick sync features using **React.js**, **Node.js**, **Express.js**, and **WebSockets**

### Vogue Vaani [\[Link\]](#)

Jun 2023 — Aug 2023

- Modeled a Streamlit application to recommend top 5 similar fashion items, using image augmentation on 44K+ images via OpenCV. Attained F1-score of 0.88 using ResNet50 model, enhancing computational efficiency through Annoy

### 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), optimizing database for 99.99% uptime and failover

### Wireless IoT based Solution for Women Safety in Rural Areas (doi: [10.1109/ICCES45898.2019.9002392](https://doi.org/10.1109/ICCES45898.2019.9002392))

Feb 2020

## LEADERSHIP & VOLUNTEERING

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