# 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 using **Docker**, **GitLab**, and **Azure Registry**
- Implemented a **GitLab** pipeline to facilitate vulnerability scanning and alerting capabilities, ensuring image security
- Designed a navigable **Angular/Spring** single-page application for the 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**
- Automated **AWS** EMR cluster deployment via CLI, reducing manual effort by **70%** with **Python** and Boto3 SDK
- Enhanced productivity by **35%** using **AWS** (S3, EC2, IAM) and created a CloudFormation template for IAM role provisioning
- Integrated GitHub repository creation and pull request functionality, cutting 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 automation agent installation on **50,000+** Hadoop hosts using a **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 API**s for payment inquiry service with documentation, achieving **80%** code coverage using **Java 8** and **JUnit**
- Built a **Java/Spring Boot** payment validation service for JSON/XML payloads using **Kafka**, microservices, and multithreading, achieving **10x** performance improvement in an **Agile** development process
- Leveraged **Elasticsearch** and **Kibana** for log monitoring of payment failures in QA reducing debugging time by **20%**
- Optimized **Oracle SQL** queries, boosting load test efficiency by **25%**, and monitored performance with AppDynamics
- Enabled workload **virtualization** to VMs with MQ changes, file transfer, and configuration management through **Chef** to facilitate resiliency and horizontal scalability
- Improved CI/CD using **Jenkins**, **Git**, and **Shell scripts** to refine software build pipelines and support **1-click** deployment
- Collaborated with Level 2 team for seamless production releases, and mentored a team of **25+** on 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 a trading utility, simplifying fields and enabling interconversion of 9 message types

## SKILLS

**Languages:** Python, Java, SQL, Ruby, Shell, HTML/CSS, JavaScript    **Databases:** Oracle, MSSQL, PostgreSQL, MongoDB, Neo4j
**Frameworks:** Spring Boot, REST, Angular, Django, Scrum    **Cloud:** Amazon Web Services, Microsoft Azure
**AI/ML:** Scikit-learn, TensorFlow, Keras, NLTK, OpenCV    **Analytics:** Excel, R, Tableau, Power BI, Talend
**DevOps:** Git, Chef, Jenkins, GitLab, Kafka, OpenShift, Docker    **Others:** 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**     **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 via ResNet50 model. Applied image augmentation on 44K+ images via OpenCV to obtain F1-score of 0.88, with 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)     **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