

SHREY SHAH

(447) 902-1978 | sshah023@illinois.edu | [LinkedIn](#) | [Github](#) | [Portfolio](#) | Champaign, IL

WORK EXPERIENCE

Country Financial — Software Engineer Co-op | Champaign, USA

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
- Remodelled underwriting transaction system, delivering **AngularJS/Spring** website to ensure **20s** data load time, and create navigable interface for tracking policy changes targeting a **25%** review time reduction
- Engineered a **Python** script for processing interns' project and time data to refresh **Tableau** dashboard operational metrics

Yahoo — Software Engineer Intern II | Champaign, USA

May 2023 — Aug 2023

- Improvise CLI to automate **AWS** EMR cluster deployment, reducing manual effort by **70%** via **Python** and Boto3 SDK
- Enhanced productivity and scalability by **35%** using **AWS** services (S3, EC2, IAM), and created CloudFormation templates (Infrastructure as Code) 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+ minute process 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 — Software Engineer | Pune, India

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 via **Java/SonarQube**
- Built a **Java/Spring Boot** payment validation service for JSON/XML payloads validation using **Agile** methodology, adapted microservices architecture with **Kafka**, achieving **10x** performance improvement
- Leveraged **ELK** for logging, reducing debugging time for payment failures in QA by **20%** through efficient root cause analysis
- 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

Barclays — Intern Analyst | Pune, India

May 2018 — Jul 2018

- Formulated 6 test scenarios for trade booking models with **JUnit** and **Test Driven Development** lowering defect rate by **10%**
- Programmed a **Java** module for an 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, AngularJS, 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, 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

May 2024 — Present

- Developing 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

- Designed 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 Aurora PostgreSQL, optimizing database for 99.9% uptime and \$10K cost reduction

Wireless IoT based Solution for Women Safety in Rural Areas (doi: [10.1109/ICCCE45898.2019.9002392](https://doi.org/10.1109/ICCCE45898.2019.9002392))

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