

SHREY SHAH

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

EDUCATION

University of Illinois at Urbana-Champaign, USA

Aug 2022 — May 2024

Master of Science in Information Management — 4.0/4.0

Sardar Patel Institute of Technology, University of Mumbai, India

Jul 2015 — May 2019

Bachelor of Engineering in Computer Engineering — 9.72/10.0

SKILLS

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

Frameworks: Spring Boot, REST, AngularJS, Django, Scrum

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

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

Database: Oracle, MySQL, PostgreSQL, MongoDB, Neo4j

Cloud: Amazon Web Services, Microsoft Azure

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

Others: Postman, Maven, VSCode, Jira, Confluence

WORK EXPERIENCE

Country Financial — Software Engineer Co-op | Champaign

Jan 2024 — Present

- Lead a team of 4 in exploring secure and centralized solutions for image registry utilizing **Docker**, **GitLab**, and **Azure Registry**
- Implement **GitLab** pipeline to facilitate vulnerability scanning and alerting to distinguish secure and compromised images
- Remodel 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
- Engineer **Python** script for ingesting and processing interns' project/time data to refresh operational metrics for **Tableau** dashboard

Yahoo — Software Engineer Intern II | Champaign

May 2023 — Aug 2023

- Improvised CLI to automate **AWS** EMR cluster deployment, reducing manual effort by **70%** via **Python** and Boto3 SDK
- Enhanced efficiency 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 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 an automation agent on **50,000+** Hadoop hosts using **Ruby** script

Barclays — Software Engineer | Pune

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 service with technical **documentation**, achieving **80%** code coverage with **Java** and **JUnit**
- Built a **Spring Boot** payment validation service for **JSON/XML** payloads validation, transitioning from monolithic to **microservices** with **Kafka**, achieving **10x** performance improvement, employing **Agile** methodology
- 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 processing 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

May 2018 — Jul 2018

- Designed 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

PROJECTS & PUBLICATIONS

CollaBro: Empowering Code Collaboration

Mar 2024 — Present

- Developing an online platform for real-time code collaboration among developers. Implement sharing, editing, chat features, with quick synchronization increasing developer efficiency, utilizing **React.js**, **Node.js**, **Express.js**, and **MongoDB**

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

Jun 2023 — Aug 2023

- 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

- 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 \$10,000 annual 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 Committee Representative: Assisting in proposing courses, updating learning, and voicing student opinions
- Represented the Payments Hub Team at the Barclays 2022 Tech Expo, discussing the adoption of microservices architecture
- Teaching Assistant to Principal Prachi Gharpure, conducting lectures, labs, and guiding students in Programming Methodology course