

SHREY SHAH

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WORK EXPERIENCE

Country Financial | Urbana, USA

Software Engineer II

May 2024 — Present

- Engineered **GitLab** pipelines for API testing, automating **50+** data flows, cutting test runtime **40%** via parallel execution
- Boosted UI regression test coverage by **75%** through a **Python** script leveraging **Robot** Framework

Software Engineer Co-op

Jan 2024 — May 2024

- Managed a team of **4** to implement modern secure image registry solutions using **Docker**, **GitLab**, and **Azure Registry**
- Pioneered a **GitLab** pipeline for image vulnerability scanning and alerting, enhancing compliance and system security
- Designed and developed a WCAG-compliant **Angular/Spring Boot** single-page application, reducing policy review times by **25%** for the underwriting team

Yahoo | Champaign, USA

Software Engineer Intern II

May 2023 — Aug 2023

- Reduced manual effort by **70%** through **Python** CLI automation of **AWS EMR** cluster deployment using Boto3 SDK
- Boosted productivity by **35%** leveraging **AWS** services (S3, EC2, VPC) and crafted CloudFormation templates for IAM roles
- Transformed manual verification process, cutting time from 10+ minutes to **30 seconds** with intuitive feedback system
- Orchestrated large-scale deployment by developing a **Chef** recipe for agent installation across **50,000+** Hadoop hosts

Barclays | Pune, India

Software Engineer

Jul 2019 — Jul 2022

- Drove **OpenShift v4** migration for payment inquiry service, achieving **20%** reduction in pod start time and compliance
- Architected high-performance **REST APIs** with **Spring Web**, attaining **80%** code coverage through robust **JUnit** testing
- Built a **Java/Spring Boot** payment validation service, delivering **10x** performance boost using **Kafka**, microservices, and multithreading in an **Agile** environment
- Enabled workload virtualization to VMs and configuration management via **Chef** to facilitate resiliency and horizontal scaling
- Optimized **SQL** query performance by **25%** and decreased debugging time by **30%** through **AppDynamics** observability and **Elasticsearch** log monitoring
- Elevated **CI/CD** pipelines with **Jenkins** and **Shell scripts** enabling streamlined builds and **1-click** deployments
- Mentored **40+** team members on Chef technology while collaborating with Level 2 team for seamless production releases

Intern Analyst

May 2018 — Jul 2018

- Formulated 6 critical test scenarios for trade booking models, lowering defects by **10%** using **JUnit** and **TDD**
- Programmed a **Java** module for trading utility, enabling interconversion of 9 message types and simplifying data fields

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 [\[Link\]](#)

Aug 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/ICC45898.2019.9002392](https://doi.org/10.1109/ICC45898.2019.9002392))

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, showcasing the adoption of microservices architecture
- Guided 80+ students as TA to Prof. Prachi Gharpure, conducting lectures and labs to teach programming concepts