SHREY SHAH

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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**

SKILLS

Languages: Python, Java, SQL, Ruby, Shell, HTML/CSS, JavaScript   **Databases:** Oracle, MSSQL, PostgreSQL, MongoDB, Neo4j
Frameworks: Spring Boot, REST, AngularJS, 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, VSCode, Jira, Confluence

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 system by delivering a componentized **Angular/Spring** single-page application, ensuring **20s** data load time and navigable interface for tracking policy changes, leading to **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**
- 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 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 API**s for payment inquiry service with technical documentation, achieving **80%** code coverage via **Java/SonarQube**
- Built a **Java/Spring Boot** payment validation service (PVS) for validating JSON/XML payloads using **Agile** methodology, adapted microservices architecture with **Kafka**, achieving a **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 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 for PVS 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

PROJECTS & PUBLICATIONS

CollaBro: 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**
- 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 (RBAC) 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/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 Teaching Assistant to Principal Prachi Gharpure, conducting lectures and labs