

# SHREY SHAH

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## EDUCATION

### University of Illinois at Urbana-Champaign

*Master of Science in Information Management (Data Science and Analytics)*

Expected Graduation: May 2024

**GPA – 4.0/4.0**

### Sardar Patel Institute of Technology, University of Mumbai

*Bachelor of Engineering in Computer Engineering*

Jul 2015 – May 2019

**GPA – 3.9/4.0**

## SKILLS

### Programming Languages/Web

Python, Java, R, SQL, HTML/CSS, Ruby, Shell Scripting, JSON, XML, REST

### ML/Data Analytics

NLTK, TensorFlow, Keras, OpenCV, Excel, Tableau, Power BI, Jupyter, Talend

### Databases/Frameworks

MySQL, PostgreSQL, Oracle, MongoDB, Neo4j, Spring Boot, Django, Agile/Scrum

### Tools/Platforms

Postman, Git, Chef, AutoSys, ELK, AppDynamics, Streamlit, Prisma, SonarQube

### DevOps/Cloud/Other

Jenkins, OpenShift, Kafka, Linux, Docker, Jinja, Jira, Confluence, AWS, Azure

## WORK EXPERIENCE

### COUNTRY Financial

*Software Development & Project Manager Intern - DigitaLab*

Champaign, USA

Jan 2024 – Present

- Developing 3 POCs to establish a centralized container image repository using **GitLab**, **Artifactory**, & **Azure Container Instances**

### Yahoo

*Software Engineering Intern - Production Engineering*

Champaign, USA

May 2023 – Aug 2023

- Built a CLI to automate **AWS** EMR cluster deployment, decreasing manual effort by **70%** using **Python** and **Boto3** SDK
- Enhanced operational efficiency and scalability by **35%** using **AWS** services (S3, EC2, IAM), and **IaC** (CloudFormation)
- Incorporated automated GitHub repository, branch and pull request creation, cutting setup time by **40%** using CI/CD
- Refined prerequisites verification flow with live and intuitive feedback replacing 10+ minutes manual process to **30s**
- Engineered a recipe for the systematic installation of automation agent on **50,000+** Hadoop hosts using **Chef** and **Ruby**

### University of Illinois at Urbana-Champaign | Data Analyst

Mar 2023 – Nov 2023

- Modeled a first-pass solution to redact PII and flag sensitive responses with 50% accuracy using **Python NLTK**
- Created accessible HTML reports to depict college survey findings via **R** markdown and IBM SPSS
- Constructed dashboards about climate survey summaries to increase customer engagement by **35%** using **Power BI**
- Resolved Qualtrics survey **API** related issue, significantly reducing batch email sending time from 1000ms to **20ms**

### Barclays Global Service Center

*Software Developer - Payments Hub (Corporate Banking)*

Pune, India

Jul 2019 – Jul 2022

- Upgraded payment search service to **OpenShift** PaaS v4, reducing pod startup time by **30%** with Prisma vulnerability scans
- Acted as SME for payment search **REST APIs** and increased code coverage to **85%** using **Java**, **SonarQube**, **Spring Boot**
- Developed **5-6** user stories for Agile-driven payment application, integrating **AutoSys** job scheduling and **ELK** monitoring
- Migrated from monolithic to event-driven microservices architecture with a **10x** performance increase using **Kafka**
- Optimized **SQL** queries to boost non-functional performance by **25%** using **Oracle** and health monitoring via **AppDynamics**
- Virtualized physical workloads to improve resiliency and horizontal scaling with configuration management via **Chef**
- Automated CI/CD pipelines to streamline software builds and **1-click** deployment using **Jenkins**, **Git** and **Shell scripts**
- Collaborated with Level 2 team to ensure successful releases to production environment and live issue remediation

### Barclays Global Service Center

*Software Engineering Intern - Markets Post Trade (Investment Banking)*

Pune, India

May 2018 – Jul 2018

- Designed test scenarios for trade booking models using Cucumber, JUnit framework and **Test Driven Development**
- Developed module for 9 message types in COBOL-based trading utility using **Java**, simplifying fields and interconversion

## PROJECTS

### Amazon Reviews Product Categorization & Sentiment Analysis

Oct 2023 – Dec 2023

- Performed product category classification on reviews employing feature engineering for top **5000** features using **Python NLTK**
- Achieved mean F1 scores of **0.68** and **0.71** with Naive Bayes, BERT models across 6 classes for English and German reviews
- Conducted Sentiment Analysis with accuracy of **0.71** and **0.74** using CNN model with word2vec and GloVe embeddings

### Fashion Recommender System

Jun 2023 – Aug 2023

- Deployed a **Streamlit** application to recommend top 5 fashion items, with image augmentation on **44,000+** images using **OpenCV**
- Achieved an F1 score of **0.88** using ResNet50 model in **TensorFlow**, optimizing computational efficiency through **Annoy**

### Leetcode Problems Search Application

Apr 2023 – May 2023

- Created a web application for retrieval of Leetcode problems based on user choices via **Django** with a **200ms** response time
- Implemented authorization and secure CRUD operations via role-based access control in **AWS Aurora PostgreSQL** database
- Transformed database management for **99.9%** uptime, rapid recovery, consistent backups, and **\$10,000** annual cost reduction

### Forbes & NYSE Companies Analysis

Apr 2023 – May 2023

- Harmonised 4 datasets with 44 features and 150 companies using **Pandas**, **Numpy** and **Talend ETL** into **1M+** instances
- Built a dashboard with **8** interactive graphics – YoY profit change, stock trends, share volatility, geographical spread using **Tableau**