

# SHREY SHAH

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## EDUCATION

### University of Illinois at Urbana-Champaign, USA

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

Aug 2022 – May 2024

**GPA – 4.0/4.0**

### Sardar Patel Institute of Technology, India

*Bachelor of Engineering in Computer Engineering*

Jul 2015 – May 2019

**GPA – 3.9/4.0**

## TECHNICAL SKILLS

### Languages

Python, Java, R, SQL, HTML/CSS, Ruby, Shell Scripting, C++

### ML/Analytics

PyTorch, Keras, Tableau, PowerBI, Jupyter, Power Query, Talend

### Databases/Frameworks

MySQL, PostgreSQL, Oracle, MongoDB, Neo4j, Spring Boot, Django

### Tools/Platforms

IDE, Postman, Git, Chef, AutoSys, Kibana, AppDynamics

### Others

Jenkins, OpenShift, Kafka, JIRA, Confluence, AWS, Jinja, Agile/Scrum

## WORK EXPERIENCE

### University of Illinois at Urbana-Champaign

*Center of Innovation in Teaching and Learning – Data Analyst*

Mar 2023 – Apr 2023

Champaign, USA

- Modeled a solution to redact PII and flag inappropriate responses with 20% accuracy using Python NLTK
- Created accessible HTML reports to depict college survey findings via R markdown automation
- Constructed dashboards to illustrate climate survey results and demographic summaries using Tableau
- Formulating custom weighting function for survey response statistics using R and Power BI M functions

### Yahoo

*Software Engineering Intern*

May 2023 – Aug 2023

Champaign, USA

- Built a CLI to automate Amazon EMR cluster deployment, decreasing manual effort by **60%** using Python
- Boosted operational efficiency and scalability by **35%** by leveraging AWS services and boto3 SDK
- Designed a template immersing users in editor mode for EMR cluster configuration to their choices via Jinja
- Incorporated automated Git repository, branch and pull request creation cutting setup time by **40%** using CI/CD
- Streamlined verification process with lucid feedback to troubleshoot and replace 10+ minutes to **30 seconds**
- Engineered a recipe for dynamic installation of automation agent on **50000+** Grid PE hosts using Chef

### Barclays Global Service Center

*Software Engineer*

Jul 2019 – Jul 2022

Pune, India

- Worked on OpenShift PaaS v3 to v4 migration for payment search microservice to reduce pod startup time by **30%**, add security vulnerability scanning, and create v4 compatible jobs
- Acted as SME for payment search REST APIs and increased code coverage to **80%** benchmark using Spring Boot
- Migrated from monolithic to event-driven microservices architecture with **10x** performance increase using Kafka
- Configured payments logs with business error codes for alerts using ELK and efficient retrieval in Kibana
- Developed 5–6 user stories for payment validation service, integrating alerts, AutoSys, and AppDynamics
- Enhanced SQL queries for non-functional test performance to reduce fetch time by **25%** using Oracle Explain Plan
- Virtualized physical workloads to improve resiliency and horizontal scaling with configuration management via Chef
- Automated CI/CD pipelines for **1-click** deployment in multiple environments using parameterized Jenkins jobs
- Collaborated with Level 2 team for successful deployment to production environment with live issue remediation

*Software Engineering Intern*

May 2018 – Jul 2018

- Developed test scenarios for trade booking models using Cucumber, JUnit, and Behaviour Driven Development
- Mapped 9 message types, including fields and interconversion formats, for COBOL based TradeRT utility using Java

## PROJECTS and PUBLICATIONS

### Fashion Apparel Classification System

Jun 2023 – Present

- Examined existing datasets and selected one consisting of over 3000+ coloured images featuring fashion apparel
- Performed image augmentation and preprocessing to enhance data quality, quantity and generalizability using keras
- Obtained a current accuracy of 68% using the CNN-based ResNET architecture Transfer Learning technique

### Leetcode Problems Search Engine

Apr 2023 – May 2023

- Created a web application for quick retrieval of Leetcode problems based on user preferences using Django ORM
- Implemented secure CRUD operations along with access control mechanism via database roles in AWS Aurora database
- Illustrated database fail-over, data replication, backups, and backtracking with annual cost estimation

### Wafer Sensor Fault Detection

Aug 2021 – Nov 2021

- Validated training data against schema and used KMeans clustering for customised ML approach using sklearn
- Trained XGBoost and RandomForest models using GridSearchCV tuning and chose model based on AUC score
- Achieved an overall accuracy of **82%** on the prediction dataset and deployed the application on Heroku

### Wireless IoT based Solution for Women Safety in Rural Areas

IEEE 2019

- *ICCES*, Coimbatore, India, 2019, pp. 232-237, doi: [10.1109/ICCES45898.2019.9002392](https://doi.org/10.1109/ICCES45898.2019.9002392)