

SHREY SHAH

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EDUCATION

University of Illinois at Urbana-Champaign

Aug 2022 – May 2024

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

GPA – 4.0/4.0

Courses: Statistical Models, Data Visualization, Data Warehousing & Business Intelligence, Database Administration, Data Mining

Sardar Patel Institute of Technology, University of Mumbai

Jul 2015 – May 2019

Bachelor of Engineering in Computer Engineering

GPA – 3.9/4.0

Courses: Object Oriented Programming, Data Structures & Algorithms, Database Systems, Software Engineering, Big Data Analytics

SKILLS

Programming Languages	Python, Java, R, SQL, C++ , HTML/CSS, Ruby, Shell Scripting
ML/Data Analytics	TensorFlow, Keras, OpenCV, Tableau, Power BI, Jupyter, Power Query, Talend
Databases/Frameworks	MySQL, PostgreSQL, Oracle, MongoDB, Neo4j, Spring Boot, Django
Tools/Platforms	IDE, Postman, Git, Chef, AutoSys, ELK, AppDynamics, Agile/Scrum
DevOps/Cloud/Other	Jenkins, OpenShift, Docker, Kafka, Jira, Confluence, AWS, Jinja

WORK EXPERIENCE

Yahoo | Software Engineering Intern | Champaign, USA

May 2023 – Aug 2023

- Built a CLI to automate Amazon EMR cluster deployment, decreasing manual effort by **70%** using **Python**
- Enhanced operational efficiency and scalability by **35%** using **AWS** services, **boto3** SDK, and Infrastructure as Code
- Incorporated automated Git repository, branch and pull request creation, cutting setup time by **40%** using CI/CD
- Refined verification flow with intuitive feedback replacing manual 10+ minute process to **30 seconds**
- Engineered a recipe for dynamic installation of automation agent on **50000+** Grid PE hosts using **Chef** and **Ruby**

UIUC | Data Analyst – Center for Innovation in Teaching & Learning | Champaign, USA

Mar 2023 – Present

- 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 automation
- Constructed dashboards to illustrate climate survey results and demographic summaries using **Power BI**

Barclays Global Service Center | Software Engineer | Pune, India

Jul 2019 – Jul 2022

- Upgraded payment search service to **OpenShift** PaaS v4, reducing pod startup time by **30%** with secure v4 compatible jobs
- Acted as SME for payment search RESTful APIs and increased code coverage to **80%** benchmark using **Java**, **Spring Boot**
- Developed **5–6** user stories for payment validation with **AutoSys** job scheduling and alert monitoring via **ELK** stack
- Migrated from monolithic to event-driven microservices architecture with a **10x** performance increase using **Kafka**
- Optimized **SQL** queries to improve non-functional test performance by **25%** using **Oracle** Explain Plan
- 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** and **Bash** scripts
- Collaborated with Level 2 team for successful release management to production environment with live issue remediation
- Contributed to team growth by conducting knowledge transfer sessions with presentations for Chef technology

Barclays Global Service Center | Software Engineering Intern | Pune, India

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

Jul 2023 – Aug 2023

- Performed image augmentation and preprocessing over **44000+** coloured images featuring fashion apparel
- Obtained an F1 score of **0.88** using the ResNet50 classification model with computational efficiency in **TensorFlow**

Forbes & NYSE Companies Analysis

Apr 2023 – May 2023

- Harmonised 4 datasets with 44 features and 150 companies using **Python** and **Talend** ETL into **1M+** instances
- Devised a comprehensive KPI metric to measure performance of different company sectors and assigning 4 categories
- Built **Tableau** dashboard with **8** interactive graphics – YoY profit change, stock trends, share volatility, geographical spread

Leetcode Problems Search Application

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 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

- Deployed a web application on Heroku platform to classify good and bad semiconductor chips based on sensor values
- Programmed data cleaning and transformation in **Python**, boosting productivity by **20%**, and employed K-Means clustering
- Trained XGBoost and RandomForest models using grid search tuning and achieved an overall F1 score of **0.82**

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)