SHREY SHAH

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EDUCATION

University of Illinois at Urbana-Champaign — Expected Graduation: May 2024
Master of Science in Information Management (Data Science and Analytics) — **GPA – 4.0/4.0**

Sardar Patel Institute of Technology, University of Mumbai — Jul 2015 – May 2019
Bachelor of Engineering in Computer Engineering — **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	IDE, Postman, Git, Chef, AutoSys, ELK, AppDynamics, Streamlit, Prisma, SonarQube
DevOps/Cloud/Other	Jenkins, OpenShift, Kafka, Linux, Docker, Jira, Confluence, AWS, Azure, Jinja

WORK EXPERIENCE

Yahoo — Champaign, USA
Software Engineering Intern - Production Engineering — 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**

UIUC | *Data Analyst* | Champaign, USA — 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 1000s to **20s**

Barclays Global Service Center — Pune, India
Software Developer - Payments Hub (Corporate Banking) — 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
- Contributed to team growth by conducting knowledge transfer hands-on sessions with presentations for Chef technology

Barclays Global Service Center — Pune, India
Software Engineering Intern - Markets Post Trade (Investment Banking) — 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**

PUBLICATIONS

Wireless IoT based Solution for Women Safety in Rural Areas (IEEE doi: *10.1109/ICCES45898.2019.9002392*) — IEEE 2019