# SHREY SHAH

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## EDUCATION

**University of Illinois at Urbana-Champaign**  —  Expected Graduation: May 2024
Master of Science in Information Management — **4.0/4.0**  —  Champaign, USA

**University of Mumbai** (Sardar Patel Institute of Technology)  —  Jul 2015 — May 2019
Bachelor of Engineering in Computer Engineering — **9.72/10.0**  —  Mumbai, India

## SKILLS

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|---|---|
| **Languages & Web** | Python, Java, C++, SQL, R, Ruby, Shell Script, HTML, CSS, TypeScript, REST |
| **ML & Data Analytics** | NLTK, TensorFlow, Keras, OpenCV, Tableau, Power BI, Jupyter, Talend |
| **Databases/Frameworks** | Oracle, PostgreSQL, Aurora, MongoDB, Spring Boot, Django, Angular |
| **DevOps/Cloud/Tools** | Postman, Git, Chef, Jenkins, GitLab, Kafka, OpenShift, Docker, AWS, Azure, Jira, Confluence |

## WORK EXPERIENCE

**Country Financial — Software Engineer Intern**  —  **Champaign | Jan 2024 — Present**
- Lead a team of **4** to pioneer secure and centralized image registry solutions using **Docker**, **GitLab**, **Azure Container Registry**
- Remodel the underwriting transaction system delivering **Angular** UI, **Spring Boot** solution to ensure data load within **20s**

**University of Illinois at Urbana-Champaign — Data Analyst**  —  **Champaign | Mar 2023 — Nov 2023**
- Evaluated a solution for redacting PII and flagging sensitive survey responses with 50% accuracy using **Python NLTK**
- Constructed climate survey summary dashboards in **Power BI** resulting in a **35%** increase in customer engagement
- Resolved Qualtrics survey **API**-related issues, reducing batch email sending time from 1000ms to **20ms**

**Yahoo — Software Engineer Intern II**  —  **Champaign | May 2023 — Aug 2023**
- Built a CLI to automate **AWS** EMR cluster deployment, minimizing manual effort by **70%** using **Python** and Boto3 SDK
- Enhanced operational efficiency and scalability by **35%** through **AWS** services (S3, EC2, IAM), and **IaC** (CloudFormation)
- Incorporated automated GitHub repository and pull request creation, to cut setup time by **40%** using **CI/CD**
- Streamlined prerequisites verification from 10+ minutes of manual steps to a **30s** flow with intuitive feedback
- Engineered a **Chef** recipe for systematic installation of automation agent on **50,000+** Hadoop hosts using **Ruby**

**Barclays — Software Engineer**  —  **Pune | Jul 2019 — Jul 2022**
- Initiated payment search service migration to **OpenShift** PaaS v4, decreasing pod startup time by **30%** with vulnerability scan
- Spearheaded development of **REST APIs** for payment search, elevating code coverage to **90%** through **Java** and **SonarQube**
- Developed a **Spring Boot** based payment validation microservice, to transform and validate XML/JSON payment data fields
- Redesigned monolithic Java app to event-driven microservice using **Kafka** streaming, resulting in **10x** performance boost
- Optimized SQL queries to accelerate load processing by **25%** using **Oracle** and improve application health via AppDynamics
- Utilized workload virtualization and configuration management via **Chef** to facilitate horizontal scaling and system resilience
- Automated **CI/CD** leveraging **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 environment and prompt resolution of live issues

**Barclays — Software Engineer Intern**  —  **Pune | May 2018 — Jul 2018**
- Designed 6 test scenarios for trade booking models using **Cucumber**, **JUnit** framework and **Test Driven Development**
- Programmed a **Java** module for an in-house trading utility, simplifying fields and enabling interconversion of 9 message types

## PROJECTS

**CategorEase** — *Python, TensorFlow, BERT, CNN, NLTK*  —  Oct 2023 — Dec 2023
- Implemented product category classification with 5000 features from Amazon reviews, achieving F1 scores of 0.68 and 0.71 for English and German languages. Conducted sentiment analysis attaining 74% accuracy with word2vec and GloVe.

**FLAIR: Finding Loyalists & Analyzing Item Relations** — *Python, Talend, Scikit-learn*  —  Oct 2023 — Dec 2023
- Analyzed over 541K transaction records to identify loyal customer segments and understand frequent item purchasing patterns. Utilized K-Means++, DBSCAN for clustering, and Apriori, FP-Growth algorithms for association rule mining.

**Vogue Vaani** — *Python, Streamlit, OpenCV, TensorFlow, ResNet, Annoy*  —  Jun 2023 — Aug 2023
- Developed a Streamlit application to recommend top 5 similar fashion items, incorporating image augmentation on 44,000+ images, to attain an F1 score of 0.88 with a ResNet50 model, enhancing computational efficiency using Annoy.

**Leetcode Problem Search Application** — *Django, AWS RDS, PostgreSQL*  —  Apr 2023 — May 2023
- Deployed a Django web app for Leetcode problem retrieval with 200ms response time. Secured CRUD operations via role-based access control on AWS Aurora PostgreSQL, optimizing database for 99.9% uptime and a $10,000 annual cost reduction.

## PUBLICATIONS

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

## EXTRACURRICULAR & VOLUNTEERING

- MS/IM Program Committee Representative: Assisting in application reviews, proposing unique courses  —  Present
- Teaching Assistant for Programming & Data Structures, and Database Management Systems at my alma mater  —  2018 — 2019