Shrey Shah

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EDUCATION

University of Illinois at Urbana-Champaign, USA　　　　　　　　　　Aug 2022 – May 2024
Masters of Science in Information Management　　　　　　　　　　　**GPA – 4.0/4.0**

Sardar Patel Institute of Technology, India　　　　　　　　　　　Jul 2015 – May 2019
Bachelor of Engineering in Computer Engineering　　　　　　　　　**GPA – 3.9/4.0**

TECHNICAL SKILLS

Languages/Data Formats	Python, Java, R, SQL, HTML/CSS, Ruby, Shell Scripting, C++
ML/Analytics	PyTorch, Keras, MS Excel, Tableau, Jupyter, PowerBI, Power Query, Talend
Databases/Frameworks	MySQL, PostgreSQL, Oracle, MongoDB, Neo4j, Spring Boot, Django, Agile/Scrum
Tools/Platforms	IDE, Postman, Git, Chef, IBM TWS, AutoSys, Kibana, AppDynamics
Others	Jenkins, Screwdriver, OpenShift, Apache Kafka, JIRA, Confluence, AWS, Jinja

WORK EXPERIENCE

University of Illinois at Urbana-Champaign　　　　　　　　　　　Champaign, USA
Center for Innovation in Teaching and Learning – Data Analyst　　　　Mar 2023 – Present
- 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　　　　　　　　　　　　　　　　　　　　　　　　　　Champaign, USA
Software Engineering Intern　　　　　　　　　　　　　　　　　May 2023 – Aug 2023
- 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 (EMR, CloudFormation) and boto3 SDK
- Designed a template immersing the users in editor mode for EMR cluster configuration to their choices via Jinja
- Incorporated automated Git repository, branch and pull request creation with CI/CD jobs, cutting setup time by **40%**
- Streamlined verification process with lucid feedback to troubleshoot and replace 20+ manual clicks to **30 seconds**
- Engineered a recipe for dynamic installation of automation agent on **50000+** Grid PE hosts using Chef

Barclays Global Service Center　　　　　　　　　　　　　　　　Pune, India
Software Engineer　　　　　　　　　　　　　　　　　　　　　*Jul 2019 – Jul 2022*
- 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 meet **80%** benchmark using Java
- 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
- Migrated from monolithic to event-driven microservices architecture with a **10x** performance increase using Kafka
- 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 involving file transfer, MQ connections, network changes, and configuration management through 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

Barclays Global Service Center　　　　　　　　　　　　　　　　Pune, India
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　　　　　　　　　　　　　Jul 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