Rushab Shah

rshab.shah@gmail.com | Github | LinkedIn | +1-(646)-934-5854

EDUCATION

New York University, Courant - *M.S. Computer Science* - New York City, USA   *September 2021 – May 2023*
Relevant coursework: Fundamental Algorithms, DevOps, Social Networks, Data Visualization in Healthcare, GPU

Savitribai Phule Pune University - *B.E. Computer Engineering* - Pune, India   *July 2013 – May 2017*
Relevant coursework: Cloud Computing, Software Engineering, Data Structures, Design & Analysis of Algorithms

WORK EXPERIENCE

Choreograph (WPP) - New York City, New York   *May 2022 – August 2022*
Engineering Intern
- Engineered & deployed a Kubeflow pipeline for ML based Taxonomy Mapping project on Google Cloud Platform
- Developed post-processing component using Python for aggregating, ranking and filtering mapping results from 5 algorithms
- Resulted in a **20%** increase in accuracy and **25% speedup** in comparison to manual taxonomy mapping process

Precisely Software & Data - Pune, India   *June 2019 – July 2021*
Software Engineer
- Led development of an API Gateway for a suite consisting of **200** REST APIs along with adaptive routing and load balancing
- Created Java-based Spring components to connect to VSAM data sources, achieving a **35%** processing time reduction
- Migrated components from Angular.js to Angular 10; reduced code redundancy by **40%** and enabled consistent UI experience

IBM - Pune, India   *July 2017 – May 2019*
Software Developer
- Programmed and integrated REST APIs using Spring Boot & Java for IBM B2Bi that supports **10M** transactions per day
- Resulted in a **30%** improvement in performance and response times in comparison to non-REST legacy Java APIs
- Upgraded UI of legacy applications using Angular framework, increasing usability and performance of the same by **20%**

IBM - Pune, India   *August 2016 – April 2017*
Intern
- Prototyped a natural language interface to a database system using Watson NLU service to make querying more intuitive
- Accelerated development of training data by **90%** using automated training data generation

PROJECTS

Replicated Concurrency Control and Recovery for a Simulated Distributed Database   *Fall 2022*
- Simulated a distributed database system comprising 20 sites, incorporating multi-version concurrency control, deadlock detection, replication, and failure recovery using Python
- Achieved **99.99%** data up-time and prevented **100%** of transaction deadlocks across a range of simulated real-world scenarios

e-Commerce Product Recommendations   *Spring 2023*
- Spearheaded end-to-end development of a cloud-native microservice for product recommendations on an e-Commerce website
- Implemented **5** REST APIs using Python and Flask, following a test-driven development plan to reduce bugs in production
- Configured a CI/CD pipeline using Github Actions for seamless updates to the cloud-native microservice
- Containerized the microservice using Docker and deployed it on IBM Cloud using Kubernetes

Analyzing the correlation between co-morbidities and COVID-19 deaths   *Fall 2022*
- Analyzed and visualized the impact of **11** pre-existing condition groups on COVID-19 outcomes
- Pre-processed two datasets, containing **471K** and **87.3 million** rows, respectively using Python & Jupyter notebook
- Leveraged 2 classification methods to identify correlations and 2 predictive models to generate predictions
- Generated **10** visualizations using Tableau to help identify the role co-morbidities played in case outcomes

Interactive Store System
- Envisioned and devised a solution aimed towards reducing human staff presence by **80%** in a physical electronic store
- Created a highly available and scalable back-end based on Serverless architecture reducing development time by **50%**
- Reduced the need for support staff by **30%** with help of an interactive chatbot made using Wit.ai

TECHNICAL SKILLS

Programming:	Java, Python, C++, JavaScript, HTML, CSS
Database, Tools & Platforms:	MySQL, MongoDB, Spring, Docker, Git, Github Actions, Postman, JIRA, Jenkins, IBM Cloud
Operating Systems:	Unix/Linux, Windows

AWARDS

● **IBM Young Achiever Award**, May 2018   ● **IBM Manager's Choice Award**, November 2017