

Brijesh Tiwari

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PROFESSIONAL EXPERIENCE

Software Engineering Intern

Inspire Brands

06/2023 – 08/2023
Atlanta, GA

- Built a multithreaded performance monitoring platform for online food ordering applications of Dunkin, Sonic and Arby's (Acquisitions of Inspire Brands).
- Implemented ETL testing and data validation techniques for Dunkin's Transaction System using SQL & DataBricks.

Research Assistant

Syracuse University

01/2023 – 05/2023
Syracuse, NY

- Conducted research under the supervision of Professor V. Phoha, developing and training a Transformer model to predict users' emotions based on mobile keystroke biometrics. Submitted research findings to the International Joint Conference on Biometrics (IJCB).
- Devised and trained a Transformer model using Python and PyTorch framework, achieving an accuracy of 98.75% in predicting users' emotions from mobile keystroke data.

Software Engineer I

Deloitte USI

04/2021 – 06/2022
Bangalore, KA

- Developed a high-performance commercial authorization model using Java and Spring Boot for validating bulk requests for GAFC(global apply for a card) applications.
- Integrated single sign-on filters(SSO) to enhance security of membership rewards applications for commercial clients.
- Enhanced efficiency in email confirmation services by debugging and optimizing response times by using Jmeter and Splunk to fine-tune performance.
- Reduced intercluster calls by 30% utilising redis for in memory caching to provide seamless interactions for commercial clients.

Programmer Analyst

Cognizant

07/2020 – 04/2021
Bangalore, KA

- Created a framework that improved the message-passing experience for Walmart Distribution Center and truck vendor services using Python & Kafka to redefine their truck scheduling process.
- Enhanced fault tolerance and seamless management of microservices architecture using Docker and Kubernetes
- Improved significant test coverage and ensured code quality by implementing comprehensive unit test cases using Junit.

Programmer Analyst Intern

Cognizant

01/2020 – 05/2020
Pune, MA

- Worked on a highly generalized application for automated testing of Retail Cloud Services.
- Included functionalities like custom report generation, mailing system, multiple customer testing & automatic data extraction in client's order management system.

EDUCATION

Master of Science in Computer Science

Syracuse University

08/2022 – 05/2024
NY, USA

Courses : Design of algorithms, machine learning for security, distributed systems, NLP, formal methods.

Bachelor of Technology in Computer Science

Punjab Technical University

06/2016 – 07/2020
Punjab, India

Courses : Computer architecture, operating systems, discrete mathematics, system programming.

PROJECTS

Truck Scheduling System

Designed and developed a truck scheduling system for walmart's vendor & distribution centers. This system was responsible for enhancing the truck scheduling process for distribution centers and vendors. Distribution centers can check time availability and schedule trucks.

VMHub: Dynamic Virtual Machine Provisioning

Created a REST server where users can sign-up and can request for virtual machine provisioning. By using Spring Boot, the application ensures security with JWT token authentication, employs PostgreSQL as the robust database, and features comprehensive APIs for tasks such as user sign-up, JWT token retrieval, VM provisioning, VM list display.

TECHNICAL SKILLS

- PROGRAMMING LANGUAGES : C/C++, Java, Python, C#, Javascript
- DATABASE : MySQL, MongoDB, CouchDB, Postgres
- FRAMEWORKS AND TECHNOLOGIES : Spring Boot, React, .Net, Azure, Kafka, Docker, Spark, Jmeter, Selenium, Kubernetes, AWS