Shubham Shekhar Jha

✉ shubhamshekhar.jha@utdallas.edu | 🔗 linkedin/shubhamshekharjha | 🐙 github/2sjha | 🌐 2sjha.github.io
📞 (469) 238-6219 | 📍 Richardson, TX

EDUCATION

The University of Texas at Dallas   Aug 2022 – Current
M.S. in Computer Science | GPA: 3.9 / 4.0   Richardson, TX

Indian Institute of Technology (Banaras Hindu University), Varanasi   Jul 2014 – May 2018
B.Tech. in Metallurgical Engineering | GPA: 7.80 / 10   Varanasi, India

SKILLS

Languages : Java, C++, Rust, Javascript, Python
Back-end Technologies : Spring Boot, Express, Redis, ApacheMQ, Kafka, Docker, Kubernetes
Front-end Technologies : Android, React Native, React
Databases : MongoDB, PostgresSQL, Cassandra

EXPERIENCE

Walmart Global Tech   Dec 2020 – July 2022
Software Engineer III | Walmart Mexico e-Commerce   Bangalore, India

Promotions & Discounts | Spring, Kafka, Cassandra

- Migrated Promotions platform out of legacy engine to Spring microservices. After migration, Cart page load-time reduced from 2.5s to 1s, saved $MXN 16M in licensing fees, and promotion set-up time reduced by 96%.
- Integrated in-store and e-Commerce promotions to create a unified customer experience and promotion creation pipeline.
- Implemented Disaster Recovery Strategies like bi-directional data mirroring Kafka topics and comprehensive ECV Checks.

Payments | Spring, Azure SQL

- Worked on developing Auto-Renewal Payment service for Walmart Mexico membership programs

OYO Rooms   Jun 2018 – Dec 2020
Software Development Engineer I & II | OYO Mesh (IoT Team)   Bangalore, India

Internet of Things | Spring Boot, AWS IoT, Redis, Kafka, MongoDB, Docker, Kubernetes

- Developed a scalable back-end from scratch for a network of more than 50,000 Energy monitoring and conserving IoT devices, OYO Switch, deployed in 6,000 hotels across India.
- Created a React based tech-support portal, where we could see the devices' status and analytical data. This website supported the hotel staff in case a device went offline.
- Worked on IoT enabled smart hotel rooms where all room appliances could be controlled via voice commands to enhance the guest experience. Integrated Alexa toolkit and the back-end server using AWS Lambda.
- Designed and developed the back-end for a Bluetooth based Offline Smart-lock, installed at 500 vacation homes. Also worked on a React Native cross-platform app to install and maintain the lock.

PROJECTS

Khwish : Community Funding Platform | Spring Boot, React, Android, PostgreSQL [about]   Feb 2020 – May 2020

- Built a Spring Boot back-end for community funding app & website, with Firebase, PostgreSQL, Instamojo integration. [code]
- Created an Android app for users to create & share community events and manage contributed funds. [code]
- Developed a React website for the community to pay securely using Instamojo and contribute to events. [code]

Sim-OS-rs : Basic Simulated OS | Rust, Sockets, Semaphores [about]   June 2023

- Simulated OS with a round-robin scheduler and a simulated printer connected via TCP socket. The printer uses semaphores to support multiple simulated computers. This was a OS course (CS5348) project, originally written in C.

Mini P2P File-sharing application | C++, Sockets, Multi-threading [about]   July 2023

- P2P File-sharing application that can handle 15 peers connected via TCP sockets. File-search is iteratively performed on the overlay network by increasing node hops in a BFS manner. This was an Advanced-OS course (CS6378) project.