

# ASIF HASNAIN

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## EDUCATION

### New York University, Tandon School of Engineering, NY

Master of Science, Computer Engineering GPA: 3.89/4.0

May 2021

**Coursework:** Data Structures and Algorithms, Principle of Database Systems, Machine Learning, Internet Architecture and Protocols, Computer System and Architecture, Cloud Computing

### RV College of Engineering, Bangalore

Bachelor of Technology, Electronics and Communications

June 2016

## TECHNICAL SKILLS

- **Programming Languages:** Java, SQL, Golang, Python
- **Technologies:** AWS, Docker, XML, JSON, ProtoBuf, gRPC, REST APIs, Maven, Git
- **Databases:** DynamoDB, Oracle, NoSQL, MySQL, SQLite
- **Certification:** Amazon Web Services Developer - Associate

## PROFESSIONAL EXPERIENCE

### Hummingwave Technology - Bangalore, India

#### Senior Software Engineer

Aug 2018 - July 2019

- Designed and developed an EMI collection and update system, integrated with payment gateways and Government of India's automated NACH(National Automated Clearing House) system.
- Integrated with CIBIL, Equifax and Trusting Social to get credit score and credit history of the customer.
- Collaborated on automation of credit and pricing policy to determine eligibility and credit limit of the customers.
- Designed and developed APIs for partner integration with access control and various customizations.
- Developed the system from scratch and reached 200k loan applications.

#### Software Engineer

Dec 2017 - Jul 2018

- Worked on backend and android app development for a financial institution for an automated loan approval application.
- Developed backend of a desktop dashboard used by bank employees to underwrite a loan application.
- Integrated with partner services for bank account and bank statement verification and created an automated system to calculate salary, current EMIs, and other loan data from bank statements.
- Developed an automated reporting system used by the management for operation and business decisions.

### Publicis Sapient - Noida, India

Jun 2016 - Nov 2017

#### Associate Technology

- Worked as a Hybris developer in e-commerce development projects for Ralph Lauren and Keurig and designed, built, and tested Java applications.
- Collaborated with the team as Java developer on various modules of Hybris including user checkout, addition of attributes of products, cronjobs, creation of page templates, and components using Impex.

## ACADEMIC PROJECTS

### Stock Brokerage Management System [\[Link\]](#)

Sep 2020 - Nov 2020

- Designed and implemented a system for live virtual stock trading with customer management and access management.
- Developed a MySQL OLTP database hosted on AWS EC2, a DataWarehouse on Oracle ADW and ETL process.
- Tools and Technology Used: Java, PL/SQL, JavaScript, AWS, Oracle

### Distributed Key-Value store based on RAFT Algorithm [\[Link\]](#)

June 2020 - Aug 2020

- Developed a fault-tolerant Distributed Key-Value store Database System with strong consistency and recoverability from the crash.
- The system supports high availability with active synchronization techniques used to maintain replicas.
- Developed client library for retries and automatic server connections management.
- Developed a docker environment to test the performance of the system against crash, consistency, and recoverability.
- Tools and Technology Used: Go, gRPC, SQLite, Docker

### Insurance System [\[Link\]](#)

Apr 2020 - May 2020

- Implemented a web application for insurance systems on AWS with granular access control for client and employee.
- Designed and implemented MySQL model on RDS and integrated with AWS Lambda using JDBC.
- Tools and Technology Used: Java, JavaScript, JQuery, MySQL, AWS