

Kishan Trivedi

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EDUCATION

University of Southern California, Los Angeles, United States

August 2021-May 2023

Candidate for Masters of Science in Computer Science.

Relevant Courses: Analysis of Algorithms, Database Systems.

D. J. Sanghvi College Of Engineering, Mumbai, India

July 2015-May 2019

Bachelor of Engineering in Computer Engineering.

CGPA: 9.25/10

Relevant Courses: Machine Learning, Data Structures, Analysis of Algorithms, Software Engineering.

PROFESSIONAL EXPERIENCE

Edelweiss financial services Pvt. Ltd, Mumbai, India

Associate – Technology

April 2021–July 2021

- Collaborated on a project for end of day risk analysis, improving trading decisions made by traders by **70%**.
- Designed and implemented a data-warehousing solution for risk trend analysis, cutting down risk analysis time by **50%**.
- Developed a piece of software for calculating cross margin benefit based on trader's portfolio thereby eliminating dependency on margin given at end of day by national stock exchange.
- Incorporated technologies such as AWS Athena, AWS Lambda, Apache ORC, and Grafana.
- Interacted with stakeholders and users to build efficient and robust solutions to business problems.
- Mentored juniors and interns in understanding business and in guiding them with assigned tasks.

Junior Associate – Technology

June 2019–April 2021

- Added multiple features to a real time post trade risk analysis software enabling traders to assess risk in real time leading to improved decision making and minimizing manual effort of traders by **80%**.
- Contributed towards development of an in-house model driven framework and engineered a fault tolerant architecture.
- Co-ordinated with a team in development and maintenance of centralized financial reference data.
- Built a client wise limit monitoring system for real time position monitoring, lowering probability of penalty levied on limit breach by **98%**.
- Provided timely QA and PROD support along with weekly releases and incorporated technologies of core java, Confluent Kafka, schema-registry, zookeeper, and Esper.

ACADEMIC PROJECTS

An adaptive data mapper for a hybrid datastore - Python, MongoDB, Redis, Sqlite

- Implemented a data mapper performing CRUD operations on a polyglot persistent system and compared and juxtaposed operational latency with same operations performed on a traditional relational database management system.
- Created a hybrid mapper using object relational mappers of given databases and analyzed complex queries on multi-structured data and achieved a query execution speed **60%** faster than standalone data mappers.

Intrusion Detection System - Python, Pushbullet API

- Developed an Intrusion Detection System in macOS running as a daemon process.
- Captured intruder's image upon incorrect validation, using python scripts.
- Integrated Pushbullet API in sending intruder images to the owner and achieved a success rate of **95%**.

TECHNICAL SKILLS

- Programming Languages: Java, Python, C
- Web and Database Technologies: HTML, CSS, Javascript, REST APIs, AWS Athena, AWS S3, MongoDB, MySQL, Redis
- Other Tools and Technologies: Confluent Kafka, Esper, Maven, Jenkins, Apache ORC, Git, SysAdmin

PUBLICATIONS

An Efficient E-Commerce Design by Implementing a Novel Data Mapper for Polyglot Persistence.

- Paper accepted at 2nd International conference on Advanced Computing Technologies and Applications 2020 (Springer)

LEADERSHIP AND INVOLVEMENT

- Secured 3rd place in firm's hackathon named **EdelHack** in 2020.
- Creative Lead of Rotary Youth Club Mumbai in 2020.