Rudresh Trivedi

Senior Software Engineer

CONTACT

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EDUCATION

UMass Boston
B.S in Computer Science and mathematics. [Dean's list]
2016 - 2019

GPA: 3.8/4.0

UMass Boston
M.S in Computer Science and mathematics [Dean's list]
2022 - 2023

GPA: 3.94/4.0

SKILLS

Expert
Scala/Akka, Java, Distributed Systems, Databases

Procient
C++, Typescript, React, NodeJS, Python, AWS/GCP, Docker, scheme

Familiar
scheme, Go, PostgreSQL, Elasticsearch, Spark, Databricks

Interest

Running Marathons
Skiing
Hiking around the globe
Cooking
Reading technical textbooks

PROFESSIONAL EXPERIENCE

ChaosSearch - Senior Software Engineer

Boston, MA, May 2019 – September 2022 & June 2023 – Present

- Led the query execution team, mentoring engineers, driving technical excellence, and ensuring alignment with business objectives.
- Architected and implemented a query caching infrastructure, significantly improving performance and securing a registered patent.
- Led customer-driven feature development, collaborating closely with customers to prioritize and deliver high-impact solutions.
- optimized and expanded the query language Abstract Syntax Tree (AST) and execution engine to support complex, nested queries, enabling more powerful data exploration.
- Owned release management and deployment processes, enforcing stability and quality across production rollouts.
- Developed custom parsers for SQL, Elasticsearch, painless, and mustache JSON extraction, optimizing AST and data processing.
- Optimized cloud compute management for task execution across AWS, Databricks, and other deployments.

AtSign - Software Engineer Intern

Boston, MA, January 2019 – May 2019

- Developed a Python SDK for building applications using the atProtocol, enabling seamless integration.
- Ensured software reliability by designing comprehensive test cases and validating functionality.
- Created detailed documentation and examples to enhance developer adoption and usability of the SDK.

DeepCure - Software Engineer Intern

Boston, MA, January 2019 – May 2019

- Developed an internal web application for hyperparameter optimization, accelerating ML model training and pharmaceutical research.
- Built an analytical web app for seamless data and ML model experimentation, rapidly adopted by the chemist team to enhance productivity.
- Designed a robust testing infrastructure to validate high-volume data flow accuracy with applied configurations.

PROJECTS

Game Development

- Developed an interactive math-learning game, combining fun animations with a sports car driving experience.
- Built the game end-to-end, handling development, design, and deployment to create an engaging user experience.
- Launched on the Play Store, achieving 1,000+ downloads across 10+ countries.

BlockChain Application

- Built a decentralized marketplace ("eBay on Blockchain") using Ethereum, enabling secure and transparent transactions.
- Integrated IPFS for decentralized user data storage and developed a full-stack system with Solidity, Spring Boot (Java), MySQL, and a JavaScript-based frontend.
- Engineered smart contracts to facilitate trustless transactions, ensuring security and efficiency in a blockchain-powered e-commerce ecosystem.