Viraj Deshmukh

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EDUCATION

Master of Science in Engineering – San José State University   *Jan 2019 – Dec 2020*

Courses: Big Data Analytics, Business Intelligence Technologies, Cloud Computing, System Engineering, Engineering Analysis, UI Design

Bachelor of Engineering in Computer Engineering – Amravati University   *Aug 2013 – May 2016*

Courses: Data Structures and Algorithms, Operating Systems, Software Engineering, Database Management, Data Communications

SKILLS

Programming Languages:	Java, C, C++, Python, JavaScript
Web Technologies:	HTML, CSS, Node.js, Express.js, React.js, Redux, REST APIs, Swagger, D3.js
Databases:	MySQL, MongoDB, Oracle, postgreSQL
Other:	Kafka, Agile, JIRA, AWS, GitHub, GitLab, Kubernates, Docker, RabbitMQ.

EXPERIENCE

Graduate Teaching Assistant at San Jose State University   *Aug 2020 - Dec 2020*
(Special Topics in Emerging Technology-Machine Learning Applications)
- Designed varied tutoring material and notes for students.
- Participated in the assessment process using a variety of methods and techniques and provided effective timely and appropriate feedback to students to support their learning.

Software Engineer at Webinar Solutions   Jan 2017 - Jan 2019
- Designed, programmed, tested and implemented business requirements in an agile based environment using Java.
- Developed backend application, interacted with clients to resolve financial application database queries, resulting in client satisfaction. Worked on performance tuning of SQL queries that retrieved complex data.
- Designed proper validation in API so that API will accept only correct JSON having specific fields.
- Developed API to deal with interactions between existing mainframe systems and some middleware channels.

Software Development Engineer - Intern at Alsis Technologies   Jul 2016 - Dec 2016
- Participated in making code changes and developing mule flow. Developed project test cases for Java source code.
- Participated in all areas of the project involving core development, defect fixing. Had roles such as team member, developer.
- Wrote java codes needed for providing custom filters, various functions for validation and mapping using Data weave Language in flow. Create technical documentation like functional and system requirement specifications.

Student Assistant at San Jose State University   Aug 2019 - May 2020

PROJECTS

E-Payment Systems - *Node.js, Express.js, React, Redis, MongoDB, MySQL*
- Built an aggregated payment gateway to handle the technology layer of financial services.
- Developers could leverage our service to provide a seamless experience to their end-user.
- Tested application with ~10000 transactions over 5 mins; Security tested for top OWASP threats.
- Payment requests were routed using strong SSL protocols and ciphers over an encrypted tunnel.

Quora Prototype - *Node.js, Apache Kafka, React, Redux, Redis, MongoDB, MySQL*
- Distributed and Scalable multi-tier QnA portal to manage over 2000 users & 10000 QnA records.
- Improved Reliability and fault tolerance using Kafka as middleware along with sharding and replication of databases.
- Improved application response time by ~20% with the implementation of Redis caching.

Canvas Prototype Application – *MongoDB, Redis, Node.js, React.js, KAFKA, GraphQL*
- Implemented Canvas web-based application on AWS to perform REST CRUD operations on MongoDB documents.
- Added GraphQL to help improve the performance of the system and it enabled rapid system development. Conceptualized CAP theorem.
- Compressed data goes through a combined encryption process based on asymmetric RSA and symmetric AES encryption.