

Drusti Hitesh Thakkar

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EDUCATION

San Jose, CA San Jose State University – MS Software Engineering GPA: 3.7/4 Aug 2018 – May 2020
Mumbai, India Mumbai University – BE Electronics Engineering Aug 2010 – May 2014

TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript, Python
- **Web Frameworks/Technologies:** NodeJS, PassportJS, ReactJS, Redux, AJAX, jQuery, HTML5, CSS, Bootstrap
- **Database:** MS SQL, MySQL, MongoDB
- **Cloud Technologies:** AWS EC2, AWS RDS, AWS Cloud9, Docker, Kubernetes, Heroku, Vcloud, TeamCity
- **Testing Tools:** Selenium, Enzyme, Jest, Junit, Jasmine, Chai, Mocha, Cucumber
- **Tools/Others:** Team Foundation Server, SVN, Git, RabbitMQ, Kafka, Microsoft Test Management

ACADEMIC PROJECTS

Multi-tenant food ordering application [Docker, AWS EC2, AWS Loadbalancer, ReactJS, Redux, HTML, CSS, MongoDB, Riak KV, Go, Agile - Scrum]

- Developed a multi-tenant food ordering system designed to be highly configurable, save infrastructure and maintenance costs
- Implemented AKF cube through data sharding, cloned RESTful web services and functionally independent APIs making it a highly scalable system
- Leveraged AWS and docker services to ensure reliability and availability
- Programmed Heroku for continuous deployment thereby cutting down development time by 30%

Cloud Based Learning Management System [NodeJS, PassportJS, ReactJS, Redux, AWS, Heroku, MongoDB]

- Built an end-to-end cloud-based, highly scalable learning management system
- Enhanced performance and reliability using Kafka, Redis Cache, MongoDB sharding and tested the system for 10,000 concurrent users through JMeter
- Upgraded the application by incorporating GraphQL thereby improving system performance

Mesh Cluster Design and Implementation – File Management System [Python, gRPC, Protobuf]

- Devised a multi-cluster distributed data store system based on the mesh architecture
- Handled features like addition and removal of nodes from the cluster, distribution of data across the cluster, data replication and fast read/write of data

WORK EXPERIENCE

Software Engineering Intern, F5 Networks, USA

May 2019 – Aug 2019

- Built a reporting dashboard employing python scripting for backend automation and regular update of data to help visualize the CPU and RAM usage of VIO
- Created a dynamic and configurable website for an internal team which required no developer intervention for any customizations required on the website
- Designed a terraform script to automate deployment of docker containers on AWS EC2 machines

Software Engineer, Duckcreek Technologies, India

Aug 2016 – July 2018

- Pioneered the automation of **ETL** end-to-end pipeline to test SSIS packages, thereby decreasing execution time to 4 hours from 27 hours of manual execution
- Developed a web application which read defect logs created defect reports according to functional components which helped developers focus on pain areas and minimizing defect count by 30%

Software Engineer, Accenture Services Pvt Ltd, India

Sept 2014 – July 2016

- Designed automated test scripts using **Selenium** to reduce test execution time from 1 hour to 20 mins
- Lead the configuration management module at the offshore office to decrease dependency on onshore team
- Worked on Continuous integration using Team City and Team Foundation Server

ACHEIVEMENTS

VMware CodeHouse Winner – August 2019

- Lead the development of a full-stack application - complete demo-able product developed to aid women who want to resume work after a break like maternity leaves
- My experience with distributed systems helped the team complete the product where we leveraged services like Docker, Kubernetes, Twilio, React-Redux and MongoDB Atlas