

MURTAZA MANASAWALA

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SUMMARY

Result-oriented professional software engineer with more than 2.5 years of industry experience. Expertise in enterprise software development, requirement gathering, problem solving, data structures and testing methodologies.. Analytical and detail oriented, works well under pressure and meets deadline consistently, while delivering high quality work.

EDUCATION

Master of Science, Software Engineering

[Dec 2019 (Expected)]

- Specialization in Enterprise Software technologies at San Jose State University, California, USA
- Research Assistant under Prof. Simon Shim for CMPE 273 - Enterprise Distributed Systems

Bachelor of Engineering, Information Technology

[2011 - 2015]

- Medicaps Institute of Technology and Management, Indore, India

Related Coursework: Distributed Systems, Web Development, Software Design Patterns, Machine Learning, Data Structures and Algorithms, System Programming and Operating System, Object Oriented Programming Concepts, Cloud Services, Cloud Technologies, Enterprise Application Development, Hadoop, Spark, Enterprise Software Platforms, Systems Software Engineering, Large Scale Analytics, Kubernetes, Docker

SKILLS

- **LANGUAGES:** Ruby, Python, JAVA, JavaScript, Node JS, C#
- **Frameworks** – Rails, Django, Spring, Spring Boot, Express JS, .NET, JUnit
- **Web Technologies:** React JS, Angular JS, HTML5, CSS3, AJAX, jQuery, jsPlumb, JavaScript, JSON, Bootstrap, Redux
- **Cloud:** Docker, Kubernetes, AWS SDK for Ruby, CloudFront, Amazon S3
- **Tools:** JIRA, Maven, Gradle, Git, SVN, Heroku, BitBucket, JMeter, Mocha, Selenium Web Driver, RESTful API, Apache Kafka
- **Database:** MySQL, PostgreSQL, MongoDB, Solr, ElasticSearch, SQLite

ACADEMIC EXPERIENCE

Wafer Processing for Semiconductor Machines

- **Tools/Technologies:** React JS, Node JS, Express JS, jsPlumb, Solr, JAVA, ElasticSearch, Akka, Redux, plotly JS, Material UI
- Created preprocessor to parse wafer processed log files and dump data in Solr and ElasticSearch
- Improvement in Machine Performance by reporting delays in wafer processing by calculating differences in manufacturing times
- Visual representation using plotly JS for drilled down analysis of semiconductor process

Movie Ticketing Portal(Replica of Fandango Website)

- **Tools/Technologies:** React JS, Node JS, Express JS, Passport JS, Bcrypt, Apache Kafka, MongoDB, MySQL, CSS, Bootstrap, Mocha, JMeter, Redux
- Implemented cloud-based solution in a distributed environment using Kafka as a messaging queue with an analytics dashboard for data visualisation
- Load balanced application with MongoDB as a NoSQL Database for enhanced searching operations and MySQL for secure transaction histories
- Implemented Redis Caching for Search Feature as a result server was able to respond to 10,000 concurrent users within 1 second

Job Search and Hire Website(Replica of Freelancer Website)

- **Tools/Technologies:** React JS, Node JS, Express JS, Passport JS, Apache Kafka, MongoDB, MySQL, JAVA, Spring Boot, Bootstrap, JMeter
- Developed a distributed application which provides all features of freelancer using MERN stack along with Apache Kafka as a messaging system, Passport JS as a authentication middleware and Mocha/JMeter as Testing Frameworks
- An authenticated user can View/Post projects, place bids, edit profile, hire a freelancer and transaction between the parties
- Designed own version of connection pooling which provided significant amount of performance increase of 12-14% for server response

Emily AI

- **Tools/Technologies:** React JS, Node JS, Express JS, Passport JS, MySQL, CSS, Bootstrap, DialogFlow, Machine Learning, Blockchain, Redux
- Machine Learning web based model to talk to depressed people developed using MERN Stack and Dialogflow
- Integrated Blockchain to decentralize nodes and allow backtracking of chats only by administrator to enhance security

TechAlchemy

- **Tools/Technologies:** React JS, Node JS, Express JS, Passport JS, SQLite, CSS, Bootstrap, Machine Learning, Python, Redux
- Cross stream content generation algorithm to create ideas for forums based on user's skills and interests
- Text summarization through Machine Learning to capture the precise intent of source data
- RAKE algorithm used for keyword extraction and generating content based on skills and interests

Angry Bird Software Design Pattern Game

- **Tools/Technologies:** GreenFoot, JAVA, Design Patterns, Scrum, Agile, Kanban
- Created a greenfoot based game by using design patterns including Composite, Observer, Strategy, Command, State and Chain of Responsibility
- Designed entire game and developed all the complex algorithms to create the obstacles and score calculation

PROFESSIONAL EXPERIENCE

Associate Software Engineer, InfoBeans Technologies Ltd., Indore

August 2015 – January 2018

Interior Decoration and Social Networking

- **Tools/Technologies:** React Native, HAML, CSS, Bootstrap, JavaScript, jQuery, Ajax, JSON, XML, GitHub, Ruby on Rails, MySQL and Solr
- Worked on an application from front-end enhancements using Bootstrap, JS and HAML, to backend architectural changes utilizing Rails
- Involved in analysis, specification, design, implementation and testing phases of Software Development Life Cycle (SDLC)

Consulting mobile application

- **Tools/Technologies:** HTML, CSS, Bootstrap, React JS, jQuery, Ajax, JSON, Heroku, Ruby on Rails, PostgreSQL, Paypal, XMPP and OpenSips
- Open chatting, audio and video calling application for consultancy. AWS S3 and CloudFront used to redirect users based on edge locations
- Integrated Amazon S3 and Cloudfront which increased the performance of website by 23-25%

Sports News, Social Betting & Community

- **Tools/Technologies:** HTML, CSS, Bootstrap, JavaScript, jQuery, Ajax, JSON, JIRA, GitHub, Ruby on Rails, MySQL and Solr
- Created Web Application to provide statistics, latest news, articles and bet on matches allowing users across the globe to socialize
- Implemented Fantasy Soccer/Cricket functionality using complex algorithms and data from third party APIs to retrieve real time data

Advertising Mobile Application:

- **Tools/Technologies:** HTML, CSS, Bootstrap, Angular JS, jQuery, Ajax, JSON, Python, Django, JIRA, BitBucket, MySQL and MongoDB
- Created provision of free calling credit based on video advertisements by redeeming points as credits and handling algorithms for balance updations
- Designed entire admin portal to display statistics based on different value measures and created graphs using D3.js

Inspirational Quotes Sharing App like Instagram

- **Tools/Technologies:** HTML, CSS, Bootstrap, JavaScript, jQuery, Ajax, JSON, Python, Django, JIRA, Git, MySQL, Amazon S3 and CloudFront
- New way to discover, create, and share beautiful picture quotes with his followers who can like and comment on the post
- Integrated Amazon S3 and Cloudfront which increased the performance of website by 18-20%