SWATHI NUGGEHALLI SUDARSHAN

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EDUCATION

Master of Science, Software Engineering, GPA: 3.53/4.0   **Expected May 2017**
San Jose State University, San Jose, CA
Bachelors in Computer Science Engineering, GPA: 3.45/4.0   **August 2010 – May 2014**
Visvesvaraya Technological University, Shimoga, India

RELATED COURSEWORK IN MASTERS

Cloud Technologies, Software Systems Engineering, Enterprise Distributed Systems, Virtualization Technologies, Web and Data Mining, Web UI Design and Development, Database Systems, Algorithms and Data Structures.

PROFESSIONAL EXPERIENCE

INSTRUCTIONAL STUDENT ASSISTANT, San Jose State University, San Jose – CA, USA   **Sept 2016 – present**
Worked under Professor Dr. Jerry Gao as an ISA for the course Cloud Technologies. Assisted the Professor in project grading and working as the Secretary for IEEE International Conferences on Big Data Computing and Mobile Cloud Conferences.

SOFTWARE ENGINEER, SPAN Infotech (India) Pvt. Ltd, Bangalore - KA, India   **Aug 2014 – May 2015**
Worked on SQL Server development. Trained on TSQL. Created procedures, SSRS reports and ETL process. Implemented XQuery for mobile application.

TECHNICAL SKILLS

JAVA, HTML5, CSS3, Bootstrap, JavaScript, R, PHP, MongoDB, SQL Server, GitHub, Amazon Web Services, Agile Methodologies, REST APIs, Node.js, AngularJS, Express.JS

GRADUATE ACADEMIC PROJECTS

Online Cab booking, Uber Prototype   **SJSU Fall 2015**

Developed an online application to book the cabs. *Google maps API* was used to map the real-time movements of driver, rider and the cab ride. *RabbitMQ* messaging queue is used to facilitate client-server communication. *JMeter* is used for load testing. Implemented own *surge pricing* algorithm. I worked on full stack development of the *driver module*.

Technologies: MEAN stack, Google Maps, RabbitMQ, HTML5, Bootstrap, D3.js

Social Network, Facebook Prototype   **SJSU Fall 2015**

Developed a social networking web application like *Facebook*. Implemented *database connection pooling* to handle simultaneous requests. Performed load testing on *JMeter* for 1000 users' asynchronous requests. I worked on developing the whole application

Technologies: MEAN stack, MongoDB, RabbitMQ, HTML5, Bootstrap

Alpha Combats, an Interactive 2D PC Game   **SJSU Fall 2015**

Built a 2D gaming developed on Greenfoot. Implemented *Composite*, *Factory*, *State* and *Observer Design patterns*. *Agile Methodologies* was used for the Software Development Lifecycle.

Technologies: JAVA, Design patterns, Agile Methodologies

Online Market Place   **SJSU Fall 2015**

Designed and developed an online marketplace using *Wordpress*. The website has interactive front-end with connection between websites using cURL. I worked on PHP and HTML.

Technologies: PHP, MySQL, cURL, HTML5, CSS3, WordPress, Bootstrap

Predict ROI on college of the USA   **SJSU Spring 2016**

Developed a datamining web application for predicting ROI on educational Institutions. Implemented *K-Means* algorithm for *Data clustering* and *Bayesian* method and *Decision trees* for decision making. I worked on NodeJS backend for the application for data mining operations along with statistical analysis using *R-studio*.

Technologies: MEAN stack, Leaflet API, JSON, HTML5, Bootstrap, Highcharts, REST API

Seismic Activity Monitoring   **SJSU Fall 2016**

Developed an effective data visualization of Real-time earthquake data with intuitive UI for the application. Used *Highcharts* for graphical data visualization and *Leaflet API* for realtime data. *WebGL* was used to map data on 3D globe. Implemented localization of the web application using *AngularJS locale module*.

Technologies: MEAN stack, Leaflet API, ArcGIS API, WebGL, CSS3, HTML5, Bootstrap, RethinkDB

HACKATHON

SVCC Opportunity Hack 2016   **Sept 2016**

Developed a responsive web application for Rising Internationals NPO to eliminate hassle of cash exchange and globalize their market, I worked on Node.js backend development and MySQL Database design and queries

Technologies: MEAN Stack, C3.js, D3.js, HTML5, CSS3, Bootstrap, MySQL, IBM bluemix