SHISHIR KULKARNI

San José, CA 95126

+1 (937) 986-9990 | shishir.kulkarni.2307@gmail.com
www.github.com/shishirkulkarni | www.linkedin.com/in/kulkarnishishir

OBJECTIVE

Enthusiastic and highly motivated computer science graduate student looking to leverage 3 years of software development experience for an **entry/mid level opportunity** in **frontend development** starting Spring 2019.

EDUCATION

MS, Computer Science, *San José State University*, *San José, CA*	Aug 2017 - May 2019 (Expected)
BE, Computer Engineering, *Savitribai Phule Pune University, Pune, India*	Aug 2011 - Jun 2015

SKILLS

Languages: Javascript, Java, C, Python.
Frameworks and Technologies: Backbone JS, Marionette JS, NodeJS, Express JS, React JS, Redux, AngularJS v1, RendrJS, RequireJS, Jquery, Sinon, Mocha and Chai, AJAX, HTTP, REST, Highcharts, D3, HTML5, CSS3, Bootstrap, LESS, SASS, MySQL.
Tools and Platforms: Git, Github, Docker, Grunt, Webpack, Browserify, NPM, AWS, Linux, Windows.
Soft Skills: Quick learner, Team Player, Strong analytical and problem-solving skills.

WORK EXPERIENCE

Emerging Technologies Intern, *Zscaler, San José, CA*   June 2018 - Present

- Built a **selectpicker library** in Marionette JS from scratch which addressed the **problems of select2**, a popular open source selectpicker library.
- Enhanced the library by **adding missing features from select2** like state maintenance across re-renders, pre-populating options while loading them from a remote data source whilst supporting all the other features like single and multi selection, initializing from DOM or options, search, and loading options from ajax.
- Optimized the library operations to be time and space efficient so that it was able to replace around **60 instances** in the product where select2 was used.
- Currently working with my team for obtaining the permission **to open source** it.

Software Engineer, *GS Lab Pvt. Ltd., Pune, India*   Jul 2015 - Jul 2017

- Designed and implemented a **customizable data visualization dashboard framework** in AngularJS, D3, and Python which provided rich data visualization widgets like charts, graphs, and tables in real-time.
- Worked in a fast-paced agile environment with a leading ed-tech startup - Edmodo Inc. San Mateo, USA, developing products and features for **70 million users**.
- Architected and migrated the application to stable frameworks like BackboneJS and NodeJS from RendrJS framework which enhanced the performance by decreasing the **initial load time by 90%** and facilitated **easy extension and maintenance**.
- **Led a team of 5 members** for the migration project to successfully complete the effort in 8 weeks.

OPEN SOURCE CONTRIBUTIONS

- A **pull request to BackboneJS** adding support for non-delegated events (https://goo.gl/LjuK5y).

ACADEMIC PROJECTS

Distributed System Monitor (https://goo.gl/uu8Grp)   March 2018 - May 2018

- Designed a distributed system monitor to monitor the CPU and memory usage of a nodes in a distributed system using Kafka, Spark and Highcharts in real-time.
- Optimized the resource usage on the server side by **using a push model** with **websockets** by which the server was able to handle data from over 50 nodes without a glitch.
- Provided support to **add and remove nodes ad-hoc** in the system to support dynamic cluster sizes.

Happy Patients Hospital (https://goo.gl/gyhdWY)   Nov 2017 - Dec 2017

- Designed Jersey APIs and infrastructure of a hospital management system using dockerized instances of cassandra, hadoop, redis and ActiveMQ configured in fully distributed mode.
- Developed the frontend in ReactJS and Bootstrap and used **Websockets for relaying ActiveMQ messages** to the frontend.