

## SAI KRISHNA REDDY JALI

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### SUMMARY

- Strong Knowledge and understanding of object-oriented programming, data structures, algorithms.
- Proficiency in a dynamic programming language (Python) and scripting language (JavaScript).
- Strong analytical and problem-solving skills, great organizational skills and ability to manage multiple tasks simultaneously.

### PROFESSIONAL SKILLS

- C, Python.
- HTML5, Cascading Style Sheets, Bootstrap, React, Redux, Apache Kafka, Node.js, Express.js, Passport.js, REST.
- Machine Learning, Large Scale Analytics, Data Mining, Deep Learning, Natural Language Processing.
- MySQL, MongoDB, Amazon Web Services, Google Cloud.

### WORK EXPERIENCE

#### Software Engineer Intern, Techpro Synergy

December 2017 to March 2018

- Developed a Machine Learning model to predict whether a student is able to get the desired job with his/her current skills.
- Worked as a team and built a system that suggests courses based on current skills to go in accordance with the expected career path.

### ACADEMIC PROJECTS

#### Quora Prototype, SJSU

- Distributed multi-tier, and horizontally scalable application, a reproduction model of the Quora website.
- Redux library is used for application state management, JSON web token is used for authentication purposes.
- Designed meaningful insights by implementing a dashboard with top-voted answers and so forth.
- Redis caching is utilized for search features resulting in server responding with higher than 10000 concurrent user requests per second which are measured using JMETER.

#### Student Faculty Management Prototype, SJSU

- Designed a RESTful application that helps students and faculty to communicate and this application is horizontally scaled to improve performance and can handle huge user requests.
- Developed the system using Apache Kafka in front of database servers to prevent bottleneck issues.
- Implemented custom written connection pooling and improved the performance of response time by ~14%.

#### Recommendation System, SJSU

- Designed a Movie Recommendation System in the University level competition (Dataset around 1M).
- Improved efficiency using Matrix Factorization by considering latent factors and also used regularization.
- Top 5% in the leaderboard positions for Root Mean Square Error (RMSE) less than 0.93.

### CERTIFICATIONS

- Machine Learning
- Natural Language Processing in Tensorflow
- Server-side Development with NodeJS, Express and MongoDB
- Front-End Web Development with React

### EDUCATION

#### Master of Science in Computer Engineering

August 2018 to Expected May 2020

San Jose State University, San Jose, CA

#### Bachelor of Technology in Electronics and Communication Engineering

September 2014 to May 2018

Jawaharlal Nehru Technological University, Hyderabad, Telangana, India