Prakhathi Murugesan

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EDUCATION

University at Buffalo, NY, US - Master of Science in Computer Science (2019 - Present) [Anticipated graduation – Dec, 2020]
Coimbatore Institute of Technology, India – B.Tech in Information Technology (2012 - 2016), *GPA – 3.7/4.0*

TECHNICAL SKILLS

Programming Languages - Python, C, and C++
Web Technologies – ReactJS, AngularJS, HTML, JavaScript, jQuery, Ajax, XML, CSS, LESS, SASS, REST API, Bootstrap, and BEM Methodology
Databases – MySQL, MSSQL and Heidi SQL
Unit Testing Framework - Jasmine, Jest and Enzyme
Frameworks and Libraries - Redux, Redux-saga, and Material-UI
Version Control - GitHub, and SVN
Visualization Tools – Recharts, Google Chart and Highcharts
Project Management Tools – Jira, and Trello

PROFESSIONAL EXPERIENCE

Software Engineer, Tavant Technologies, India   (*June 2016 – July 2019*)

- Experienced in frontend development with backend system integrations and RESTful API web services to integrate between Application to Application.
- Proficient in using Unit testing framework along with Jasmine, Karma, and jest test runners and in using React JS components, Forms, Events, Router, Animations, and Redux concept.
- Possess working knowledge in creating Custom Reusable React Components and in Redux architecture using complex Object-Oriented concepts in improving the performance of the websites.
- **Web Service Project for a Client:** *[React JS, Redux-Saga, Jasmine, Enzyme, Material-UI, and Recharts]*
  - Developed a Web service that enables the client to track and monitor mortgages, assets, repayments, and other activities of their customers.
  - Adapted to the client's existing methodology to deliver codes that are similar to the codes in the client's current system, Example - Atomic Design concepts and BEM methodology, etc.
  - Developed various components from scratch to utilize the same throughout the entire project and developed different visualization modules to help read and analyze the data seamlessly.
- **Web Modernization Project for a Client**: *[jQuery, HTML, CSS, LESS pre-processor, and Bootstrap]*
  - Revamped and optimized the client's existing mortgage website to increase efficiency and delivered the desired output to the client.
  - Customized the themes and other aspects on the website to suit the branding of third party vendors of the client that log in to their respective portals of the website.
- **Feedback and Monitoring Application for Internal Teams**: *[React JS, Node JS, My SQL, Highcharts]*
  - Developed an organization-wide application that records the achievements of Tavant employees, enables respective managers to rate the employees, and helps the Human Resource department monitor the performance.
  - Integrated the application with LDAP and automated mailing module to push notification and feedback mail to employees.
- Evaluated user stories, analyzed the feasibility, estimated the effort and time of development, and deployed the sprints following agile methodology by understanding the clients' requirements.
- Mentored junior resources in coding and delivered high-quality codes with 100% unit test coverage and with no cross-browser compatibility issues.

ACADEMIC PROJECTS

- **Cross Platform Mobile Application "Entertain Me":** *[React Native, Node JS, MS SQL]* – *On going*
  - The Cross-platform mobile application that is going to be available for both Android and IOS helps customers in finding, communicating, negotiating and booking entertainers seamlessly.
  - The app consists of Live Chat, Search, Sort, Payment gateway, Feedback and Ratings features.
- **Multilingual Search Engine using Twitter Data**: *[Python 3, and Solr]* - github.com/prakhathi-m/IR-Tweet-Search
  - Built an end to end Information Retrieval Solution as a website by hosting it using AWS to collect the dataset - tweets of the various person of interest and post them in Solr.
  - Implemented search functionality, sort, and filter options on the search result, analytics on the search results (sentiment analysis, keyword analysis), and charts and map-based visualizations that provided insights on the POIs' tweets and their impact.
  - Scraped relevant news articles for the search keyword.
- **Reinforcement Learning**: *[Python 3]*- https://github.com/prakhathi-m/Machine-Learning/tree/master/Reinforcement Learning
- **Multi-class Classification of MNIST Fashion Dataset using Neural Network**: *[Python 3]* - https://github.com/prakhathi-m/Machine-Learning/tree/master/Multiclass Classification

COURSEWORK

- **Graduate** – Introduction to Machine Learning, Information Retrieval, Algorithms Analysis and Design, Data Intensive Computing, Data Models and Query languages, Distributed Systems* and Blockchain* (* - planned for upcoming semesters).
- **Undergraduate** - Data Structure and Algorithms, Database Management System, Object Oriented Programming, Operating Systems, and Web Technologies.

EXTRACURRICULAR ACTIVITIES

- Had been a part of VFC India (A voluntary organization) for many years now and took part in several social activities like Tree plantation, Library setup in Orphanages, preparing audiobooks for the visually impaired and blood donation camps, etc.