Prakhathi Murugesan

Prakhath@buffalo.edu | +1 (716) 352 7794 | linkedin.com/in/prakhathimurugesan | github.com/prakhathi-m

EDUCATION

University at Buffalo, NY, US - Master of Science in Computer Science (2019 – Expected Graduation Date(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 – React JS, Angular JS, HTML, JavaScript, jQuery, Ajax, XML, CSS, LESS, SASS, REST API, Bootstrap, and BEM Methodology
Databases – My SQL, and Heidi SQL
Unit Testing Framework - Jasmine, and Enzyme
Frameworks and Libraries - Redux, Redux-saga, and Material-UI
Version Control - GitHub, and SVN
Project Management Tool – Jira, and TFS
Visualization Tools – Recharts, and Highcharts

PROFESSIONAL EXPERIENCE

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

- **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.
  - Mentored junior resources in coding and delivered high-quality codes with 100% unit test coverage and with no cross-browser compatibility issues.
- **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.

ACADEMIC PROJECTS

- **Heart Disease Prediction System**: [Java, and Heidi SQL]
  - Developed a 'Heart Disease Prediction System' as B.Tech's final year project that aims at helping doctors in predicting the occurrence of heart diseases in patients.
  - The historical unstructured data of patients is processed, structured, and stored in the database, and Naïve Bayes algorithm is used to find out the clusters from which the hidden patterns were extracted.
- **Retrieval and Indexing of Twitter Data**: [Python 3, and Solr] - github.com/prakhathi-m/Information-Retrieval
- **Binary Classification on Breast Cancer Dataset using Logistic Regression**: [Python 3]- github.com/prakhathi-m/MachineLearning/blob/master/logistic-regression
- **Multi-class Classification of MNIST Fashion Dataset using Neural Network**: [Python 3] - github.com/prakhathi-m/Machine-Learning

COURSEWORK

- **Graduate** – Introduction to Machine Learning, Information Retrieval, Algorithms Analysis and Design, Data Mining and Bioinformatics*, Data Intensive Computing*, and Computer Vision and Image Processing* (* - 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.