

# Prakhathi Murugesan

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## EDUCATION

**University at Buffalo**, The State University of New York, US - Master of Science in Computer Science (Aug 2019 - Dec 2020\*), **GPA – 3.7/4.0**

- Coursework: 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).

**Coimbatore Institute of Technology**, India – Bachelor of Technology in Information Technology (July 2012 - May 2016), **GPA – 3.7/4.0**

- Coursework: Data Structure and Algorithms, Database Management System, Object-Oriented Programming, Operating Systems, Web Technologies, Software Engineering, Data Warehousing, and Data Mining.

## TECHNICAL SKILLS

**Programming Languages** - Python, C, and C++

**Web Technologies** – ReactJS, NodeJS, Django, HTML, JavaScript, ES6, jQuery, Ajax, XML, XQuery, CSS, LESS, SASS, REST API, and Bootstrap

**Databases** – MySQL, MSSQL, PostgreSQL and Heidi SQL

**Unit Testing Framework** - Jasmine, Jest, and Enzyme

**Frameworks and Libraries** - React-Native, Redux, Redux-saga, Hadoop MapReduce, Apache Spark, and Material-UI

**Tools: Code Versioning** - GitHub, and SVN. **Project Management** – Jira, and Trello

**Visualization Tools** – Recharts, Google Chart, D3.js and Highcharts

## PROFESSIONAL EXPERIENCE

**Software Engineer Intern, Twine Labs, NY, US** [ReactJS, Redux, Django, PostgreSQL, AWS] (June 2020 - Aug 2020\*)

- Debugged and resolved known bugs in the product and delivered user-friendly, responsive web applications.
- Implemented Django models to capture the details of the user request and notify them in the slack channel.
- Converted Figma Wireframes into interactive user-facing features coupled with in-built carousel and animations using React hooks.

**Software Engineer, Tavant Technologies, India**

(June 2016 – July 2019)

Summary:

- Experienced in creating web applications and in building and consuming RESTful API web services using NodeJS, React, Redux-Saga.
- Proficient in Test Driven Development (TDD) using Unit testing framework along with Jasmine, Karma, and jest test runners and in using React JS components, and Redux concept includes the store, selector, component lifecycle, etc.
- 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.
- Evaluated user stories, analyzed the feasibility, estimated the effort and time of development, and deployed the sprint tasks following agile methodology (SDLC) by understanding the clients' requirements.
- Collaborated with stakeholders in different teams such as Business Analysts, Product Designers, and Quality engineers to understand the requirement and discuss the feasibility and challenges of implementation.
- Participated in peer code reviews and mentored junior developers in web page optimization & best coding practices and delivered high-quality codes with 100% unit test coverage and with no cross-browser compatibility issues.

**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 new initiative to bring best practices in development by incorporating coding guidelines and modular project structures such as Atomic Design concepts and BEM methodology.
- Developed various components (Date-range picker) 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 by using modern web technologies to increase efficiency and delivered the cross-platform, cross-browser, scalable web application to the client.
- Incorporated module bundlers like Webpack into the build environment to reduce the page load time of web applications by 40%.

**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.

## ACADEMIC PROJECTS

**Cross-Platform Mobile Application "Entertain Me":** [React Native, Node JS, MSSQL, AWS(EC2, S3, RDS)] – [App working demo](#)

- Designed, documented, and developed a cross-platform mobile application that helps customers in finding, communicating, negotiating, and booking entertainers seamlessly.
- The app consists of Facebook authentication, Live Chat, Search & filter entertainers, Payment gateways (Stripe), Feedback, and Rating system, admin management.

**Multilingual Search System using Twitter Data:** [Python Flask, AWS (EC2), React JS, and Apache Solr] - [GitHub](#) | [Working Demo](#)

- Built an end to end Information Retrieval Solution as a website which uses tweets of the various person of interest collected using Twitter REST API and indexes them in Solr to provide relevant query results.
- Implemented sort, filter, pagination, analytics on the search results (sentiment analysis, keyword analysis), and interactive charts and map-based data visualizations that provided insights on the POIs' tweets and their impact.
- Scraped relevant news articles for the search keyword.

**Movie Genre Prediction using PySpark:** [Python 3, Pyspark]- <https://github.com/prakhathi-m/Pyspark>

**Big Data Processing with Hadoop:** [Python 3, Hadoop] - <https://github.com/prakhathi-m/Hadoop>

## EXTRACURRICULAR ACTIVITIES

- Volunteer as a part of VFC India (A voluntary organization) for two 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.