

# Prakhathi Murugesan

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## EDUCATION

<b>University at Buffalo, The State University of New York</b> Master of Science in Computer Science <u>Coursework:</u> Machine Learning, Information Retrieval, Algorithms Analysis and Design, Data-Intensive Computing, Data Models and Query languages, Distributed Systems.	Buffalo, NY, USA	<b>Aug 2019 - Feb 2020</b> GPA – 3.78 /4.0
<b>Coimbatore Institute of Technology</b> Bachelor of Technology in Information Technology <u>Coursework:</u> Database Management System, Object-Oriented Programming, Operating Systems.	Coimbatore, India	<b>Jul 2012 - May 2016</b> GPA – 3.7/4.0

## TECHNICAL SKILLS

**Technologies:** ReactJS, Python, NodeJS, Django, Java, HTML, CSS, LESS, SASS, JavaScript, ES6, REST API, Bootstrap, React-Native, Redux, Redux-saga, Hadoop MapReduce, Apache Spark, Material-UI, jQuery, Ajax, XML, XQuery, Recharts, Google chart, D3.js.

**Unit Testing Framework:** Jasmine, Jest, Enzyme; **Database:** MySQL, MSSQL, PostgreSQL; **Tools:** GitHub, SVN, Jira, Trello.

## PROFESSIONAL EXPERIENCE

<b>Application Developer</b> , ADP Inc. [React JS, Redux, Typescript]	New Jersey, USA	<b>Mar 2021</b>
<ul style="list-style-type: none"><li>Enhanced <b>accessibility</b> across multiple components by using semantic UI; supported <b>internationalization</b> of the application.</li></ul>		
<b>Software Engineer Intern</b> , Twine Labs [React JS, Redux, Django, PostgreSQL, AWS, D3.js]	Remote, USA	<b>Jun 2020 - Dec 2020</b>
<ul style="list-style-type: none"><li>Built a new Analytics dashboard and re-vamped the Forum segment in the product to boost user engagement by 30%.</li><li>Developed interactive user-facing features with in-built carousel and animations by translating <b>Figma</b> wireframes.</li><li>Enhanced the performance of the product by 10% by reimplementing <b>redux</b> based functionalities into custom <b>React hooks</b>.</li><li>Executed <b>Django models</b> to notify the team in Slack about prospects visiting the website and helped in reducing TAT.</li></ul>		
<b>Software Engineer</b> , Tavant Technologies	Bengaluru, India	<b>Jun 2016 - Jul 2019</b>
<ul style="list-style-type: none"><li>Developed a web service that automated the client's monitoring system of their customers' mortgages and repayments.</li><li>Revamped and optimized the client's existing website into a cross-browser and responsive website to increase efficiency.</li><li>Spearheaded an internal project that built an application to support HR activities and monitor employees' performance.</li><li>Incorporated module bundlers such as <b>webpack</b> into the build environment to reduce application's page load time by 40%.</li><li>Adopted <b>Test-Driven Development (TDD)</b> to deliver high-quality codes with 100% unit test coverage.</li><li>Evaluated the user stories and allocated tasks to the team based on effort and time estimates following <b>Agile methodology</b>.</li><li>Collaborated with other teams' stakeholders to discuss the requirements, feasibility, and to resolve operational challenges.</li></ul>		
<u>Accolades:</u> <ul style="list-style-type: none"><li>Received 'The Best Employee' award for the year 2018 for delivering excellent results in a crucial client's projects.</li><li>Recognized by the senior management for implementing an internal HR solution that streamlined the performance reviews.</li></ul>		

## TECHNICAL PROJECTS

<b>Cross-Platform Mobile Application “Entertain Me”:</b> <i>[React Native, Node JS, MSSQL, AWS(EC2, S3, RDS)]</i> – <a href="#">App working demo</a>		
<ul style="list-style-type: none"><li>Designed, documented, and created a mobile application that is a marketplace for entertainers and freelancers.</li><li>Built a rating system, search function, filters, and other key features for customers to sort and book entertainers effortlessly.</li><li>Integrated <b>Stripe payment</b> gateway into the product to deliver a seamless booking and payment experience.</li></ul>		
<b>Multilingual Search System using Twitter Data:</b> <i>[Python Flask, AWS (EC2), React JS, and Apache Solr]</i> - <a href="#">Git</a>   <a href="#">Working Demo</a>		
<ul style="list-style-type: none"><li>Built an Information Retrieval System for tweets and executed custom query parser to improve multilingual search.</li><li>Created data visualizations and analyzed sentiment and keywords of the search results to provide insights on the tweets.</li></ul>		
<b>Movie Genre Prediction using PySpark:</b> <i>[Python 3, Pyspark]</i> - <a href="https://github.com/prakhathi-m/Pyspark">https://github.com/prakhathi-m/Pyspark</a>		
<ul style="list-style-type: none"><li>Implemented a multi-label classification algorithm to build a movie genre prediction model and incorporated pre-processing of the movie plot to remove stop/filler words to increase efficiency.</li><li>Refined the F1 score significantly for the results by building custom engineering word2vec to create a distributed vector.</li></ul>		

## LEADERSHIP EXPERIENCE

<b>Team Building</b> , Tavant Technologies	Bengaluru, India	<b>Jun 2018 - Jul 2019</b>
<ul style="list-style-type: none"><li>Mentored 4 newly on-boarded employees in the team on product and industry knowledge and helped them perform tasks independently while offering support during escalations.</li><li>Assessed the teammates' strengths to delegate work and implemented team building exercises to improve collaboration.</li></ul>		
<b>Team Leader</b> , Volunteer for a cause	Bengaluru, India	<b>May 2018 - Jul 2019</b>
<ul style="list-style-type: none"><li>Led a team of 10 to 20 volunteers to run social activities such as Tree plantation, Library setup in Orphanages and preparing audiobooks for the visually impaired.</li></ul>		
<b>Head of Workshops – Academic Fest</b> , Coimbatore Institute of Technology	Coimbatore, India	<b>Jan 2015 - Mar 2015</b>
<ul style="list-style-type: none"><li>Led a team of 15 students to organize events at the college's annual engineering fest by planning and running creative workshops.</li></ul>		