ROHITH SATHIAMOORTHY PANDIAN

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Education

University of California San Diego — **California, US**
Master of Science in Computer Science (CGPA: 4.0/4.0) — Sep 2022 - Jun 2024
Coursework: Networked Systems, Algorithm Design and Analysis, AI - Probabilistic Reasoning and Decision Making, Search and Optimization, Recommender Systems and Web Minig, Biomedical Natural Language Processing

PSG College of Technology, Anna University — **Coimbatore, India**
Bachelor of Engineering in Robotics and Automation — Jul 2016 - Sep 2020
CGPA: 9.91/10.0, University Rank: 1 (Best Outgoing Student, Gold Medallist)

Technical Skills

- **Languages**: Python, JavaScript, TypeScript, GoLang, C, C++, JAVA, HTML and CSS, SQL, PowerShell
- **Frameworks**: Node.js, React, Redux, REST, Tensorflow, Scikit, MongoDB, D3.js, Keras, Pandas, NLTK
- **Tools**: JIRA, GIT, Tableau, Jupyter, Elastic, Kibana, Logstash, Postman, Jest, Docker, Minitab
- **Platforms**: Windows, Linux, IIS Web Server, Microsoft SQL Server, Arduino, Raspberry

Professional Experience

Ramco Systems | Analyst Programmer - New Initiatives | Chennai, India — **Nov 2020 - Jun 2022**

- Tools: **React, Node, JIRA, REST APIs, MongoDB, IIS Server, ELK, D3.js, OIDC, PowerShell, xWiki**
- Full Stack Development, Data Science, API Integration, Distributed Systems, Deployment Automation
- Led development of a semi-automated customer support system for creating tickets from the Ramco Core Software, improving fix generation for support teams. The system reduced overall the Service Level Agreement by 30%, improved customer self-service and is currently live for over 60 customers.
- Integrated system logs to elastic and designed Kibana dashboards to monitor performance & user metrics.
- Implemented a classification model for Ticket Type and Sub-type prediction using Supervised Machine Learning and later improvised using BERT Transformer Model and achieved an accuracy of 86%.
- Developed a module to dynamically suggest help content based on the Product Business Component, Screen Context, and User Issue Summary from the company documentation site using Solr Search.
- Automated the deployment pipeline for the system to scale feature release for 40+ public cloud customers.
- Built 25+ and reviewed 40+ React UI components for the Ramco Low Code Platform.
- Designed a scheduler to sync time bookings of the employees from JIRA and Wrike to the internal timesheet application to facilitate tracking the effort spent on various projects and support activities.

Projects

Pathfinding and Maze Algorithms Visualizer | *Web Development and Graph Traversal* — **Project** | **Code**

- Built a react based static web page to visualize Path finding (Dijkstra's, A*, Bidirectional Greedy, Breadth-First) and Maze Generation Algorithms (Recursive Division, Vertical Division, Random Maze).

Representation Learning for Sepsis Prediction | *Deep Learning and Natural Language Processing* — **Code**

- Employed Deep Learning Models (CNN and LSTM) to predict Sepsis using the MIMIC-IV chest X-ray reports of patients admitted to the ICU (Achieved PPV of 73%). Improvised the model's performance by using a 200D PubMed Word2Vec embedding of their clinical reports (Increased PPV to 80%).

Understanding the interplay between rating and category in Google Local Reviews | *Recommendation* — **Code**

- Experimented on how restaurant information, GPS, user review sentiments could contribute to the task of rating prediction and suggesting personalized cuisines. The proposed strategy excibits less than 11% inaccuracy in the prediction experiments on the Google local reviews dataset.

Sorting Algorithms Visualizer | *Python, PyGame* — **Project** | **Code**

- Developed a graphical user interface to visualize sorting algorithms (Quick, Bubble, Heap, Radix Sort, etc).