# Manohar Vellala

https://www.linkedin.com/in/manohar-vellala-446204191
https://github.com/manoharvellala

Email: manoharvellala2000@gmail.com
Mobile: 6361051681

## Education

**BNM Institute of Technology**
Bengaluru, India
*B. Tech in Computer Scienced Engineering, CGPA: 8.12/ 10.0*                  *July 2019- June 2023*

## Experience

**ThoughtClan technologies Pvt Ltd**                                                     Bengaluru, India
*Software Engineer*                                                                            *Present*
- **Product Development:** Contributed to the development of Weapon Management Website. Implemented REST APIs for seamless communication between client-side and sever-side. Implemented role-based authentication for secure access to multiple users, including Admin, Tool manager, and Users.
- Facilitated tool requests by enabling Users to send notifications to the Tool Manager. Utilized client-side caching to reduce latency and improve the overall user experience. {Spring-boot, Java, React}

**Research Intern, Old Dominion University**                                            Norfolk, USA
                                                                                            *2022*
- During our research internship at Old Dominion University, we were responsible for designing and implementing a Multi-factor Authentication website for Map Communications, a startup. This involved utilizing Auth0 and Twilio to incorporate OTP verification into the authentication process. {React, Spring-Boot, Java}
- Deployed an SVM-based model that achieved an accuracy rate of 70% in detecting sudden movements in agitated patients using accelerometer data from a Fitbit Versa 2 watch. {AWS DynamoDB, Python}

**Software Intern, Indian Space Research Organization**
Bengaluru, India

                                                                                            2021
- Contributed for ISRO Web-Application E-Beam Software by developing graph plotting Module for welding machine which was used to automate the process of plotting the focus current and beam current by varying the machine parameters which was processed by machine learning algorithm. The graph was used to detect any anomalies in the welding process which otherwise was difficult to get it from the machine. {flask, python}

## Projects

**Graph Visualizer**
- Created an interactive graph visualization project showcasing DFS, BFS, A*, Swarm, Dijkstra's, and Greedy Best First Search algorithms. Designed an intuitive user interface for users to explore and analyze algorithm behavior. Translated complex algorithms into visually appealing representations. Demonstrated strong problem-solving and programming skills in delivering a comprehensive educational resource. {JavaScript, Node JS}

**Inventory Management System**
- Designed an inventory management system as part of our college DBMS mini project, enabling users to efficiently manage their inventory by utilizing functions such as adding, deleting, and updating items in the cart. Implemented administrative capabilities for managing users, quantity, and stock, employing the concept of triggers and indexing to enhance overall system performance and functionality. {Django, python}

## Achievements

**Best Research Intern**                                                                 *May, 2018*
- Received Best Research Intern for my outstanding contributions to the project at Old Dominion University. I proved to be a reliable team player and a skilled problem solver.

## Programming Skills

- **Languages:** React, SQL, JavaScript, Python, XML, HTML, CSS, Java
- **Tools/ Technologies:** Spring-Boot, Amazon AWS, React JS, Jupiter Notebook, Flask, Node JS, Django