

Arul Murugan B

LinkedIn: www.linkedin.com/in/aran169
GitHub: <https://www.github.com/Arani169/>

Contact: 9442241239
Email: muruganarul1693@gmail.com

SKILLS

- **Technical Skills:** C++, Java, Python, JavaScript, HTML, CSS, NodeJS, ReactJS, MySQL, MongoDB.
- **Soft Skills:** Problem-Solving Skills, Team Player, Project Management, Adaptability.

INTERNSHIP

Machine Learning | Cipher Schools.

June 2023 – July 2023

- Completed the Machine Learning Summer Training Program at Cipher Schools, gaining hands-on experience with various machine learning techniques and tools.
- Faced with the challenge of understanding complex machine learning algorithms and their real-world applications.
- Applied acquired knowledge to develop and optimize machine learning models, enhancing problem-solving skills and technical proficiency.
- Worked alongside peers and mentors to tackle machine learning challenges, fostering teamwork and communication skills.

PROJECTS

Smart City Monitoring | Tableau, MERN Stack:

September 2024 – November 2024

- Cleaned and prepared a large dataset, applying preprocessing techniques to ensure data accuracy and consistency for analysis.
- Developed comprehensive visualizations and graphs in Tableau to present key insights on urban development and smart city eligibility.
- Designed and implemented a web interface to display Tableau graphs, enabling easy data access and interaction for end-users.
- Ensured a seamless integration between front-end and back-end components for reliable performance and user satisfaction.
- GitHub Repository Link: <https://github.com/Arani169/City-Monitor>

Budget Tracking | MERN Stack:

January 2024 – March 2024

- Developed a full-stack application using React (front-end), Node.js (back-end), and MongoDB (database) to manage personal budgets.
- Implemented core functionalities for adding, editing, and deleting transactions, enhancing user experience and data management.
- Added a download feature for transaction data, enabling offline record-keeping and efficient budget analysis.
- Ensured a seamless integration between front-end and back-end components for reliable performance and user satisfaction.
- GitHub Repository Link: [Arani169/Budget-Tracker \(github.com\)](https://github.com/Arani169/Budget-Tracker)

Tic Tac Toe Game | Java, MySQL:

September 2022 – October 2022

- Implemented a fully functional Tic-Tac-Toe game in Java, featuring an AI opponent powered by the Minimax algorithm.
- Leveraged the Minimax algorithm to create an intelligent AI that evaluates all possible moves and selects the optimal strategy for gameplay.
- Incorporated robust input validation and error handling to ensure a seamless and error-free gaming experience for users.
- Faced and overcame challenges related to implementing the Minimax algorithm and ensuring optimal performance.
- GitHub Repository Link: <https://github.com/Arani169/X-O-game-using-Mini-Max-algorithm-Java%20>

CERTIFICATES

- **Front-End Developer (React) HackerRank** March 2024
[Certificate Link](#)
- **Graph Search, Shortest Paths, and Data Structures.** Coursera by Stanford University May 2023
[Certificate Link](#)
- **Divide and Conquer, Sorting and Searching, and Randomized Algorithms.** November 2022
[Certificate Link](#)

ACHIEVEMENTS

- Solved 100+ coding problems on HackerRank and Leetcode. August 22 - Present
- 5-Star Rating in C++ Language on HackerRank. March 2024
- Participated in a Hackathon conducted by GeeksForGeeks at Lovely Professional university August 2022
- 5-Star Rating in C Language on HackerRank. April 2022

EDUCATION

- **Lovely Professional University.** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.17 Since August 2021
- **Trinity Academy Matriculation school.** Namakkal, Tamil Nadu
12th with science; Percentage: 85.16 % April 2020 - March 2021
- **Bharani Park Matriculation School.** Karur, Tamil Nadu
Matriculation; Percentage: 85.20 % April 2018 - March 2019