

# Arul Murugan B

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## PROFESSIONAL SUMMARY

Skilled Computer Science and Engineering student with expertise in full-stack development and machine learning. Adept at building robust applications and implementing intelligent algorithms. Strong problem-solving and teamwork abilities, with excellent communication skills and a commitment to continuous learning and innovation. Capable of balancing technical acumen with effective interpersonal communication, striving to deliver innovative solutions and contribute to the success of the team.

## INTERNSHIP

### Machine Learning | Cipher Schools.

Jun 2023 – Jul 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.

## SKILLS

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

## PROJECTS

### Budget Tracking | ReactJS, NodeJS, MongoDB:

Jan 2024 – Mar 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: [Aran169/Budget-Tracker \(github.com\)](https://github.com/Aran169/Budget-Tracker)

### Tic Tac Toe Game | Java:

Sep 2022 – Oct 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/Aran169/X-O-game-using-Mini-Max-algorithm-Java%20>

## CERTIFICATES

- Front-End Developer (React) HackerRank** Mar 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** Coursera by Board Infinity Nov 2022  
[Certificate Link](#)

## ACHIEVEMENTS

- Solved 100+ coding problems on HackerRank and Leetcode. Aug '22 - Present
- 5-Star Rating in C++ Language on HackerRank. Mar 2024
- Participated in a Hackathon conducted by GeeksForGeeks at Lovely Professional university Aug 2022
- 5-Star Rating in C Language on HackerRank. Apr 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  
12<sup>th</sup> with science; Percentage: 85.16 % April 2019 - March 2020
- Bharani Park Matriculation School.** Karur, Tamil Nadu  
Matriculation; Percentage: 85.20 % April 2017 - March 2018