

# TARUN BHATI

Computer Science & Engineering

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## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2026	M.Tech CSE	National Institute of Technology, Trichy	08.79/10
2023	B.Tech CSE	Dr. A.P.J. Abdul Kalam Technical University	07.80/10

## WORK EXPERIENCE

### ACCENTURE

Packaged App Development Associate

11/2023 - 08/2024

Gurugram, India

- Completed a **2-month MERN stack training**, enhancing proficiency and efficiency in **web development**..
- Optimized **stored procedures** in postgresql to reduce time of **data ingestion** task by **50%**.
- Automated the daily file-sharing process, **reducing manual intervention by 100%** and **saving approximately 1 hour per day**.

### TENFINS CONSULTING

Software Intern (Remote)

12/2022 - 12/2023

Boulder, Colorado, USA

- Enhanced core features in the **Comped App** by adding interactive activities and integrating **REST API** endpoints.
- Reduced server-to-database query volume by **approximately 75%** for key endpoints through optimized data fetching strategies.
- Authored **100+ pages** of documentation, **reducing new developer onboarding time**.
- Decreased **client-side API requests** for username validation by **99%** via **debounce strategies**.

### MYMEGAMINDS PVT. LTD.

App Developer Intern

01/2021 - 07/2021

India

- Developed a mobile app with client/admin workflows, **achieving 1K+ downloads**.
- Implemented **complete company work cycle** from **customer project acceptance to completion**.
- Created E-commerce Grocery app for buying and selling vegetables (**transactions worth 50k+ INR**).
- Implemented **role-based chatting functionality for Admins, Tutors, and Students**, enhancing communication and user experience.

## PROJECTS

### AlgoCubeSolver - using Korf's IDA star Algorithm

(Live Demo)

- Engineered a **virtual 3×3 Rubik's Cube** in C++ using OOP, with **three distinct models** for state representation.
- Achieved optimal solutions via **BFS, DFS, IDDFS, and IDA\***, solving **8-move scrambles in under 3s** and **13-move scrambles in under 10s**.
- Designed a **memory-efficient heuristic evaluation** function to guide search algorithms toward optimal paths.
- Deployed a **cross-platform solver backend** with a dynamic web UI using **Docker** and **onRender** for accessibility.

### ChronicleX

(Code)

- Developed a Medium-style blogging platform with a **serverless architecture** on **Cloudflare Workers**.
- Enhanced database performance in serverless environments by integrating **Prisma Accelerate** for **efficient connection pooling**.
- Improved user experience through responsive **skeleton loaders** and reactive UI with **Recoil**-based state management.
- Built with **Node.js, React, Prisma, Tailwind CSS, Hono, Recoil, and Cloudflare Workers**.

### DarwinDispatch - Logistics Optimization Using Genetic Algorithms

(Live Demo)

- Designed a Python-based solution for the Vehicle Routing Problem using **multi-objective genetic algorithms**.
- Implemented **tournament selection, partially matched crossover, and shuffle mutation** with the **DEAP** library to improve population diversity and convergence speed.
- Introduced **adaptive stopping criteria** to **balance computational cost and solution quality**.
- Achieved robust, scalable results using **Python, DEAP, NumPy, and Matplotlib**.

## AWARDS AND ACHIEVEMENTS

- Achieved **Knight rank** on **LeetCode** with a **rating of 1859**, ranking in the **top 4.87%** globally and solving over **500+ problems**.
- Placed in the **top 0.5%** globally (**Rank 540/100,000+**) in **TCS CodeVita**, a globally recognized algorithmic coding contest.
- Earned **5-star** in C++ and Problem Solving on **HackerRank**, reflecting strong coding and algorithm expertise.

## PROFILE LINKS

- **LinkedIn** – [linkedin.com/in/tarunbhati17/](https://www.linkedin.com/in/tarunbhati17/)
- **LeetCode** – [leetcode.com/u/Tarunbhati/](https://leetcode.com/u/Tarunbhati/)
- **GitHub** – [github.com/Tarunbhati100](https://github.com/Tarunbhati100)

## SKILLS AND EXPERTISE

- **Languages:** C, C++, Python, Dart, JavaScript, SQL
- **Frameworks & Libraries:** ReactJS, NodeJS, ExpressJS, MongoDB, Flutter
- **Tools & Platforms:** Linux, Docker, GitHub, Cloudflare Workers, Render