

UMANATHAN MUTHUKUMARAN

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📍 Coimbatore, India

EDUCATIONS

Karpagam College of Engineering | Coimbatore, INDIA

Sep 2024 - Present

B.E Computer Science and Engineering

CGPA : 8.5

- **CGPA:** 8.5

Maharishi Vidya Mandir (CBSE) | Chennai, INDIA

Jun 2023 - May 2024

Grade 12

CGPA : 85%

- **Percentage:** 85%

PROJECTS

Event Ticketing System |  Github

Sep 2025 - Present

Developer

- **Designed** a **Java-based ticketing platform** using **OOP principles** with modular class design.
- **Implemented** seat allocation using **HashMaps** to prevent duplicate bookings.
- **Added** booking and cancellation workflows with real-time seat availability updates.
- **Handled** invalid inputs and edge cases using **exception handling** to ensure data consistency.

Technologies / Tools Used : Java

Traveloop |  Github

Developer

- Developed an **AI travel planner** web app that creates **day-by-day itineraries** utilizing the **Groq LLaMA 3.3 70B API**.
- Created **interactive maps** using **React-Leaflet** and **OpenStreetMap geocoding** to enhance trip visualization.
- Engineered modules for **budget tracking**, **invoice generation**, and a **smart packing assistant**.
- Integrated **Firebase Auth** and **Firestore** for secure authentication and **real-time data storage**.
- Designed a **responsive UI** featuring options for trip sharing and **AI-driven workflows**.

Technologies / Tools Used : React, Tailwind CSS, firebase

AWARDS & ACHIEVEMENTS

- **Solved 400+** Data Structures and Algorithms problems across **LeetCode**, **CodeChef**, and **Codeforces**.
- **Participated** in **30+** competitive programming contests on **LeetCode**, **CodeChef**, and **Codeforces**.
- **Ratings:** LeetCode – 1433, CodeChef – 1010, Codeforces – 374.
- **Completed** a freelance web development project for SB Aircon, developing a responsive company website using **HTML**, **CSS**, **JavaScript**, and **Bootstrap**.
- **Gained hands-on experience** in web hosting, domain management, DNS configuration, and domain transfer workflows.
- **Strong understanding** of time and space complexity optimization.

CERTIFICATIONS

- **Python Programming - Red Hat:** [Link](#)
- **MongoDB Basics for Students:** [Link](#)
- **Java Programming - Udemy**
- **The Joy of Computing Using Python - NPTEL**

SKILLS

Databases :	MySQL, Firebase
Frameworks & Libraries :	Bootstrap
Languages :	English, Hindi, tamil
Programming Languages :	Java, Python, C++, C, JavaScript, SQL
Tools & Platforms :	Git, GitHub, MongoDB, VS Code, Eclipse
Soft Skills :	Communication, Problem Solving, Teamwork