

Anvit Tandon

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Education

Indian Institute of Information Technology, Bhopal 2023 - 2027
BTech in Computer Science and Engineering

- CGPA: 9.48/10 ([till fourth semester](#))
- **Coursework:** Data Structures and Algorithms, Design and Analysis of Algorithms, Database Management System, Software Engineering, Principles of Programming Languages, Fundamentals of Computer Programming

Experience

Software Engineer Intern, Dream Cloudtech March 2025 - May 2025

- Enhanced UI/UX of the school ERP product website (Vite + React.js) developed by Dream Cloudtech, improving user experience and navigation.
- Implemented PDF to Excel conversion, structuring data into a specific format compatible with the ERP system for seamless API-based uploads.
- Optimized frontend performance, reducing load times and improving responsiveness through efficient React.js components and best practices.

Teaching Assistant, Discrete Structures Jan 2025 - May 2025

- Appointed as a Teaching Assistant for "Discrete Structures (CSE-2002)" at the **Indian Institute of Information Technology (IIIT) Bhopal** under the guidance of **Dr. Gaurav Khanna** and **Dr. Habibul Islam**.

Software Engineer Intern, Garuda Travels - Bhopal, MP June 2024 - August 2024

- Developed web scraping tools using Selenium and Python to gather and analyze relevant data, aiding business insights and decision-making.
- Ensured seamless integration of the scraped data into business operations for improved decision processes.
- **Technologies Used:** Selenium, Python, MS Excel.

Projects

WhisperNet [GitHub](#) [Live Link](#) Jan 2025 - Jan 2025

- Developed "Whisper Net" – a web app for **anonymous messaging** with **AI-generated suggestions** using **Google Generative AI**, with **secure authentication** via **NextAuth.js** and **real-time notifications**.
- Designed a **responsive UI** using **Tailwind CSS** and implemented efficient data storage with **MongoDB**; **Tech Stack:** Next.js, React.js, MongoDB, Tailwind CSS, NextAuth.js, Google Generative AI.
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ScheduleIt [GitHub](#) [Live Link](#) Dec 2024 - Dec 2024

- Designed and developed "Schedule It," a web app for **event scheduling** with **calendar view**, **drag-and-drop rescheduling**, and color-coded events.
- Implemented **local storage** for data persistence, built a **responsive design**, and deployed using **React.js** and Vercel.

Omnidirectional Pathfinding Algorithm [GitHub](#) [IEEE Xplore](#) Dec 2023 - Feb 2024

- **Led and published an IEEE paper** on a **pathfinding algorithm** for an RC car using a **single ultrasonic sensor**, with a **two-phase obstacle detection system** and **mean-based approach** to minimize false positives.
- Engineered an **omnidirectional composite sensor** using a servo motor with a monodirectional ultrasonic sensor and oversaw **practical testing** to ensure the algorithm's reliability and effectiveness.
- **Tools Used:** C++, Arduino, Arduino IDE, Hardware Prototyping.

Skills

Languages: Python, C#, Kotlin, C, C++, SQL, HTML, CSS, JavaScript, TypeScript

Technologies: React.js, Next.js, Flask, .NET Core, MongoDB, Microsoft SQL Server, Tailwind CSS, NextAuth.js, Google Generative AI, Selenium, Postman, Visual Studio, Visual Studio Code