

Hitansh Agarwal

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[Portfolio](#), [GitHub](#), [LinkedIn](#)
Programming Languages: C++, C, Python, Java

Education

Manipal Institute of Technology

Manipal, Karnataka

Bachelor's of Technology in Mathematics and Computing

August 2023 - May 2027

Relevant Coursework: Artificial Intelligence, Software Engineering, Database Management Systems, Analysis of Algorithms, Machine Learning, Data Structures, Advanced Programming, Problem Solving using Computers.

Experience

Independent Contractor: [Terrafox](#)

March 2026 - June 2026

Location: San Francisco, USA (Remote)

- Built scalable backend systems integrating USGS, EPA, and Census APIs to automate ASTM-compliant environmental risk analysis and reporting.
- Designed data pipelines to aggregate and normalize geospatial and environmental datasets for high-throughput processing.

Frontend Engineering Intern: [Flowbit AI](#)

December 2025 - May 2026

Location: Heilbronn, Germany (Remote)

- Built scalable **React** features for a **satellite-imagery object detection platform**, focusing on performance and maintainability.
- Integrated frontend with **REST APIs** and ML pipelines to surface model outputs reliably.

Frontend Engineering Intern: [Context.ai](#)

May 2025 - June 2025

Location: San Francisco, USA (Remote)

- Designed and developed mission-critical frontend components using **React** and **Tailwind CSS**, following modular design and version-controlled workflows.

Projects

[Zebra Puzzle Solver](#)

November 2025

- Built a **Constraint Satisfaction Problem (CSP)** solver using backtracking and constraint propagation, implementing efficient search strategies and modular **Python** design.

[PlayFooty: Football League Management System](#)

October 2025

- Built a full-stack football league management system using **React**, **TypeScript**, and **Supabase**, implementing REST-based data access, real-time updates, and role-based access control.

[Machine Learning Project: F1 Qualification Prediction](#)

March 2025

- Built and evaluated a **Random Forest model** to predict F1 qualifying positions (**97% R²**), performing feature engineering, model tuning, and **Flask**-based deployment.

Leadership and Activities

Design Head, IECSE Manipal

July 2025 - August 2026

- Lead the **design** domain of the **official computer club** of Manipal Institute of Technology and designed multiple projects for the club.

Head of Technical Operations, IAESTE LC Manipal

July 2025 - August 2026

- Managed a database of over 3000 students. Developed and deployed the website of IAESTE LC Manipal. Oversaw the working of the Information Technology Manager and the Data Analyst of the club.

Skills

Languages: Python, C++, C, Java, JavaScript, TypeScript, SQL

Frameworks/Tools/DB: React, Flask, Firebase, TailwindCSS, PostgreSQL, Supabase, Git, REST APIs, Docker (basic)

Design: Figma, Blender, Adobe Suite [Photoshop, Premiere Pro, After Effects, Illustrator], Canva

Certifications: [Object-Oriented C++](#), [Python for Data Analysis](#), [CS50x 2020](#), [HTML5.0x](#)