

# Parth Ahuja

 9810173153    Mail    LinkedIn    Github    Portfolio

## Education

Jaypee Institute of Information Technology, Noida

2021 - 2025(Expected)

B.Tech. Computer Science and Engineering (Current CGPA: 7.6)

Noida, Uttar Pradesh

- **Relevant Coursework:** Data Structures and Algorithms (C++), Computer Networks, Operating Systems, Software Engineering, Open Source Software Development, Large Scale Database Systems

## Experience

Bharat Electronics

June 2024 – July 2024 (Ongoing)

Engineering Intern

Ghaziabad, Uttar Pradesh

- Developed a project in Qt focusing on NMEA message parsing and multithreading UDP sockets for efficient data handling.
- Created Lua scripts for Wireshark to develop custom message dissectors, enhancing network protocol analysis.
- Designed and implemented a simulator in Qt for equipment within the combat management system of naval ships, incorporating plugin play components, UI design, logic, and signal-slot mechanisms using classes and inheritance for optimal performance.

## Projects

Codemantra | React.js, Node.js, Express.js, MySQL, Redis

[Link](#)

- Developed an online **code editor** for JavaScript, Java, Python, and C++ with **real-time execution** and an interface for student submissions using React.js, allowing teachers to access submissions, outputs, and timestamps.
- Utilized MySQL and Node.js/Express for efficient **data management** and backend development.
- Integrated Redis **caching** to optimize data retrieval, achieving **10-15 times reduction** in retrieval times.

SustainDine | MongoDB, Express.js, Node.js

[Link](#)

- Developed an app bridging surplus food with NGOs to combat food wastage, supporting the **UN goal of "Zero Hunger"** (Selected for **Google Solution Challenge 2024 Regional Bootcamp**).
- Developed MongoDB, Express, and Node.js backend for seamless data management and API functionality.
- Implemented robust server-side logic, including **data validation** and **authentication**.

Bits & Bytes | React.js, Node.js, Express.js, MongoDB

[Link](#)

- A **learning management system (LMS)** designed to facilitate online education and training.
- Implemented **authentication, authorization, backend features, React components, and API integration** for seamless functionality.
- Added features like **tab switch** and **quiz in videos** to improve watch time.

## Skills

**Languages:** C/C++, JavaScript, Python

**Technologies:** ReactJS, Node.js, Express, HTML, CSS, Tailwind CSS, MongoDB, MySQL, Git, GitHub

**Familiar With:** Linux, Core Java, Redis, Docker

**Soft Skills:** Leadership, Teamwork, Problem-Solving, Decision Making, Creative Thinking, Effective Communication, Adaptability, Time Management, Organization, Attention to Detail

## Positions of Responsibility

Google Developers Student Club IIIT 128 (Non-tech Lead)

Led a team of 40, organized a national hackathon with 1000+ participants and led a Git/GitHub session.

Abhivyakti: Drama Society IIIT 128 (PR Head)

Led a team of 20, organized workshops and performed street plays.

## Achievements

**SpaceHack, IIIT Delhi:** Attained a position within the top 10 teams(out of 100+ teams) in the competition.

## Certifications

Web Developer Bootcamp : Udemy, Data Structures in C++ : Coding Ninjas, Docker For Beginners : KodeKloud