

Abhirup Bhattacharyya

SOFTWARE DEVELOPMENT ENGINEER · BACK-END DEVELOPER

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TypeScript | C++ | Node.js | Nest.js | Redis | BullMQ | AWS | PostgreSQL | React

Summary

Worked as a Back-End Intern at a company specializing in services for health clinics, where I implemented an elastic rescheduling algorithm for stream and wave scheduling systems. Master of Computer Applications graduate with a focus on back-end development, computer networks, and algorithms. Currently strengthening my knowledge of Data Structures and Algorithms.

Interested in computer graphics, developing effective problem-solving approaches for complex tasks, and exploring new technologies and tools. Actively shares knowledge in technology communities.

Work Experience

PerlThoughts

Tamil Nadu, India

BACK END INTERN

July 2025 - August 2025

- Designed and implemented an API using TypeScript and Nest.js which lets patients book appointments with doctors.
- The API was designed to have as less endpoints as possible, and making sure the endpoints had strong validation rules, be flexible, and have consistent naming conventions for queries and mutable request bodies.
- Implemented an algorithm which reschedules appointments if the doctor decides to change his working schedule for a particular date or day or has an emergency. The algorithm was designed to automate a lot of the process done by a clinic staff.

Projects

Shopify Inventory Management App

[GitHub Repository Link](#)

Typescript, Node.js, Nest.js, Redis, BullMQ, GraphQL, PostgreSQL, JWT

Jan. 2025 - June. 2025

- Developed an app which automates processes for managing Shopify stores.
- Handled Sync and mutation operations by creating background jobs using message queues.
- Cron jobs are ran during restarts and intervals to sync the data between redis cache data and the Postgres database, and also for periodically syncing some data from Shopify server.
- Implemented a credits based system where store admins can buy credits through the shopify payments gateway.
- Used Redis to cache frequently requested data.
- Implemented role based authorization and JWT based authentication.

Golf Tournament App

[GitHub Repository Link](#)

JavaScript, Fetch API, Node.js, Express.js, EJS, Tailwind CSS

Jan. 2025 - Jan. 2025

- Developed an app which was used in a golf tournament of 72 players. It uses stableford scoring system to calculate the scores.
- The App helped the judges, and the admin facilitate the tournament and let the players update their strokes, have the judges verify the scores.
- It let the players calculate their handicap during the registration.
- There are four endpoints, a score table, admin page, login and registration and the players endpoint
- Handled race conditions in cases where the admin and a player were editing the same value during the match.
- Score table used fetch API to update the scores in fixed intervals.
- Made a easy to use, clean UI using tailwind.

Pomodoro App

[Chrome Extension Github](#)

React, TypeScript, Chrome API, Vite

June 2025 - July 2025

- Deployed the app to chrome extension store.
- Used chrome's API and storage to maintain state, handle various events in the popup menu and have a persistent storage.
- The app can take all the parameters required for a pomodoro timer and the user can update the settings during a session.

Certificates

July 2025 **JavaScript**, HackerRank

946b9a753cb1

June 2023 **Node.js Developer**, Udemy

0010f74970a9

Education

Galgotia's College of Engineering and Technology

MASTER OF COMPUTER APPLICATIONS

- 8.07 Overall CGPA

Greater Noida, Uttar Pradesh

Nov. 2022 - Jul. 2024

Greater Noida Institute of Management

BACHELOR OF COMPUTER APPLICATIONS

- 1st Division

Greater Noida, Uttar Pradesh

August. 2019 - June. 2022

Git Collaborations

2D Community Game

C++ DEVELOPER

- Contributed to a github community repository
- Implemented procedural map generation using cellular automata.
- Implemented Tile placement logic.

Github Repository Link

Jul. 2024 - Aug. 2024