

# Varun Tyagi

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## EDUCATION

### Netaji Subhas University of Technology

Bachelor of Technology in Electronics and Technology (with Internet of Things)

Dwarka, New Delhi

2020 – 2024

– Cumulative GPA: **5.65/10.0**

## EXPERIENCE

### Software Development Intern

Sept '23 - Feb '24

Rovisor Research

Remote

- Completed web developer internship, gaining hands-on experience in building and maintaining web applications.
- Implemented front-end designs to enhance user experience and debugged code.
- Developed skills in HTML, CSS, JavaScript, TypeScript, Angular.
- Collaborated with senior developers to integrate APIs and optimize application performance.
- Contributed to the development of a responsive and dynamic company website, improving load times by 20%.

### Web Developer Intern

Jun '23 - Jul '23

Business Web Solutions

Remote

- Completed a dynamic web developer internship, gaining hands-on experience in designing and maintaining web applications.
- Implemented modern front-end designs, enhancing user experience and engagement.
- Debugged code effectively, ensuring smooth functionality and optimal performance of web applications.
- Developed proficiency in HTML, CSS, and JavaScript, establishing a strong foundation for future projects.

## PROJECTS

### Job Seeking Application | ReactJS, NodeJS, ExpressJS, MongoDB, JWT

(Link)

- Developed Frontend of the Application Using ReactJS with **Context API** as it reduces the Problem of Prop Drilling and **Increases Performance around 20 Percent** and Backend Using **NodeJS** and **Express**.
- Improved the Website Performance **around 5-10 percent** by using Render As Fetch approach rather than Fetch On Render approach using **React Router DOM 6**
- Validated the User using **Token Based Authentication** rather than Session based Authentication which improved the Server Performance **5-6 percent**
- Refined Website with the use of 2-3 security packages like **Rate Limiting, Helmet and MongoDB Sanitize preventing NoSQL Query Injections**
- Scrapped Data from Different Random Job Website using **Beautiful Soup** in Python

### QuickBites (Food Ordering WebApp) | Node.js, Express.js, MongoDB, JWT

- Built a full-stack web application allowing users to browse food items, place orders, and manage their cart with secure authentication.
- Implemented user registration and authentication with **JWT** for secure access control and order management.
- Designed and developed a custom **RESTful API** using **Express.js** for managing food items, orders, and user information.
- Created an intuitive and responsive admin dashboard for managing food categories, items, and orders, using **MongoDB** to handle database operations.
- Optimized the application to ensure efficient **data handling and retrieval**, improving performance for large datasets of food items and user orders.
- Integrated features such as order tracking, cart management, and order history to enhance the user experience.
- Implemented **error handling** and **security features** like rate limiting and input validation to prevent malicious activities.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** C++, C, Python, MySQL, Javascript, Typescript, Node.js, Express.js, MongoDB

**Developer Tools:** HTML, CSS, Angular, Git, Jira

**Soft Skills:** Communication, Teamwork, Time Management

**Coursework:** Data Structures and Algorithm, Operating System, OOPS,DBMS

**Areas of Interest:** Problem Solving, Full Stack Development, Data Analyst

## ACHIEVEMENTS

**Problem Solving:** Solved 320+ questions on GeeksforGeeks and 250+ on LeetCode, 1500 rating on CodeChef

**Academic:** Secured 98.2 percentile among 1 million students in JEE Mains