

# Udhav Agarwal

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## EDUCATION

### New York Institute of Technology

September 2022 – May 2026

*Bachelor of Computer Science, (T.K. Steele Scholarship Award, \$104k)*

Manhattan, NY

- **Relevant Coursework:** Data Structures & Algorithms, Introduction to Software Engineering, Computer Networks, Computer Organization & Architecture, Elements of Discrete Structures, Communications for Technical Professions, Information Systems, Digital Logistics
- **Awards & Certificates:** 7x24 Exchange Metro NY Chapter (Received \$5k)

### Chitrakoot Public School

June 2020 - May 2022

*High School Diploma (GPA: 3.90/4.00)*

Rajasthan, India

- **Awards & Certificates:** Google Code to Learn (Winner), Vigyantaram Innovation Contest (5<sup>th</sup> rank), IBM workshop on Chatbot, *2nd Place Winner*, Codevidhya Learn to Code (*Winner*)

## PROFESSIONAL EXPERIENCE

### New York Institute of Technology

May 2024 – July 2024

*Academic Technology Services Student Worker*

Manhattan, NY

- Support the staff in integrating teaching and learning tools like Canvas, LMS, and WordPress into course development projects.
- Worked on migrating the content and edits from the old NYIT site to the new one.

### STEP For a Better World LEO Club

*Website Developer*

November 2024 – Present

Princeton, NJ

- Handling the organization website by updating content, editing design & features.
- Used GitHub for deployment and tech stack: HTML, CSS, JS and SQL.

### DesiBoy.net

October 2024 – Present

*Software Developer*

India

- Used web services and RESTful APIs to facilitate smooth data sharing using robust backend architecture through Node.js and Express.js.
- Developed React.js and Tailwind CSS modular components and then implemented them, which has resulted in reduction of time, keeping consistent designs.

## ACADEMIC PROJECTS

### AI Task Management Software

- Created a complete task management application that uses Java Spring Boot as back-end and React.js as front-end.
- Included functionalities such as user authentication and authorization, create-read-update-delete operations.
- Integrated MySQL database for data security and storage efficiency. Deployed using Docker and hosted on AWS, showcasing pro-level skills in cloud deployment and containerization.

### AI-Powered Chatbot for Healthcare Assistant

- Designed a healthcare chatbot using OpenAI GPT-3/4 APIs to assess symptoms and schedule appointments.
- Built a Flask backend to handle patient queries, integrated with PostgreSQL for appointment management.
- Deployed the chatbot on AWS using Docker and monitored system performance via Grafana and ELK Stack.

## SKILLS

**Languages:** Python, Java, C#, SQL, C++, HTML, CSS, JS, Flask, R, MATLAB, Go

**Frameworks/ Tools:** Restful API, AWS S3, Docker, MongoDB, Git/GitHub, React.js, Node.js, Three.js, WebSocket, Express.js

**Others:** UX and usability evaluation

**Speaks:** English (Fluent), Hindi (Native), Spanish (Intermediate)

## LEADERSHIP

Student Council Head Boy, Chitrakoot Public School

2021-2022

- Led the school's student council, overseeing initiatives, logistics, and weekly meetings to ensure smooth operations.