

# Shreya Vaidya

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## EDUCATION

**North Carolina State University**, Raleigh, NC | *Master of Computer Science* August 2023 - May 2025 (Expected)  
Courses: Software Engineering, Design and Analysis of Algorithms, Object Oriented Design and Development

**College of Engineering, Pune**, India | *Bachelor of Technology in Computer Engineering* August 2019 - May 2023  
Courses: Database Management Systems, Data Structures and Algorithms, Information Retrieval GPA:8.51/10

## TECHNICAL SKILLS

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

**Frameworks and Tools:** React, Angular, React Native, Express, FastAPI, Jenkins, Docker

**Databases:** MongoDB, MySQL

## WORK EXPERIENCE

**Citibank**, *Software Engineer Intern*, Pune, India May 2022 - July 2022

- Developed a process automation tool in Angular used to track the productivity of teams and manage vendor resources in the Payment and Receivables business unit. Enhanced task success rate by 36%.
- Automated the deployment of the application to OpenShift using a Jenkins pipeline and reduced cycle time by 12%.

## PROJECTS

**Deepfake Detection using Computer Vision** – [GitHub Link](#)

- Built a novel solution to identify synthetically generated videos created with the intent to spread misleading information or defamation.
- Developed a full-stack video streaming platform for authentic content in React integrated with the proposed Masked Image Modelling and Vision Transformer model built in PyTorch.
- Devised a Discord bot in Python to flag deepfakes and send out an alert to all members in the server.

**Mobile Application for Image based Calorie Tracking** – [GitHub Link](#)

- Designed a user-friendly application targeted towards fitness enthusiasts wanting to log their daily food intake and calories.
- Developed a mobile application in React Native that allows users to log their daily food intake using a camera, track nutrient specific breakdown of food items and set daily and weekly goals for calories consumed.

**Progressive Web Application for Inventory Management** – [Deployed Application](#)

- Developed and deployed a Progressive Web Application (PWA) using React, Express, Node and MongoDB for a construction company to solve the problems of data monitoring, maintaining a daily progress report and documentation.

**Version Control System** – [GitHub Link](#)

- Designed and developed a system in C that records changes to a file or set of files over time so that a user can recall specific versions later on their local machine.
- Implemented and applied UNIX commands diff and patch.

**Time Table Generator based on Constraint Satisfaction Problem** – [GitHub Link](#)

- Designed a dynamic system that schedules the slots and the teachers for a particular subject and day according to given constraints by modelling a Constraint Satisfaction Problem (AI).
- Developed a full-stack application in React and FastAPI which efficiently generates a timetable based on the availability entered by teachers.

## POSITIONS OF RESPONSIBILITY

- In charge of the overall functioning of the Computer Society of India, COEP as the student chapter's President, comprising 200+ members, including technical events and initiatives such as national level hackathons and competitive coding competitions.
- Contributed to the end-to-end development of various software products, aligned projects with client requirements, constructed detailed work plans, managed teams, and ensured timely delivery of the product at Software Development Section, COEP.

## EXTRACURRICULARS

- Selected as a finalist in the *Smart India Hackathon* for the problem statement - Promoting Fitness using Gamification by the Department of Sports (DoS) and Ministry of Youth Affairs Sports, India.