

Tanay Desai

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EDUCATION

Rutgers University-New Brunswick

Bachelor of Science in Computer Science, **GPA: 3.167/4.0**

Relevant coursework: Intro to Computer Science, Data 101, Calculus I.

New Brunswick, NJ

Aug. 2023 – May 2027

Shri Bhagubhai Mafatlal Polytechnic

Diploma in Information Technology, **GPA: 9.1/10.0**

Relevant coursework: Database Management Systems, Data Structures, Advanced Web Technology, Internet Security, Human Computer Interaction, Operating Systems.

Mumbai, IN

Dec. 2020 – June 2023

EXPERIENCE

Software Developer

Rutgers OIT-EAS

Feb 2024 – Present

New Brunswick, NJ

- Working on the development of Rutgers University's web portal, which is used over **70,000** students and faculty across three regional campuses.
- Developing custom reusable and responsive components using React.js, which reduced development time by **30%** and improving code maintainability by enabling component reuse across entire project.
- Resolved bugs and identified errors, leading to **15%** improvement in application performance.
- Engineered dark mode features in the application increasing the user engagement by **20%**.

Front-End Developer

Skillsvista

July. 2022 – Aug 2022

Dublin, Ireland

- Designed and developed **3+** responsive and user-friendly web application components using Vue.js for over **2000+** monthly users.
- Leveraged **Vuex** for robust state management, enhancing data flow and maintaining application stability.
- Identified **5+** critical bugs within the website, leading to a reduction in **15%** reduction in support tickets.
- Implemented UI/UX improvements which boosted the user engagement by **20%**.

PROJECTS

STAMP | [Github](#) | React.js, Python, Flask, Chakra-UI

Feb 2023 – June 2023

- STAMP is a **drone-based** software designed for advanced surveillance systems, providing comprehensive monitoring and enhanced security capabilities.
- Designed the entire front-end of the application using **React and Chakra UI**, ensuring a responsive and visually appealing user interface.
- Integrated Flask APIs for seamless communication between the backend and frontend, enhancing **data flow and application functionality**.

RU-ScarletSelector | [Github](#) | React.js, Python, Flask, Material-UI

March 2024

- RU-ScarletSelector, a **course recommender** for Rutgers students, integrating past performance data to recommend optimal courses and real-time professor suggestions.
- Single-handedly **designed and implemented** an intuitive user interface using React.js and Material-UI, during a hackathon in 24-hours.
- Engineered Flask APIs to facilitate smooth interaction between the backend and frontend, **optimizing data flow** and enhancing overall application functionality.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML/CSS, R, C#.

Frameworks: React.js, Vue.js, Node.js, Express.js, Flask, Material-UI, Chakra-UI, Tailwind CSS.

Databases: MongoDB, MySQL, PostgreSQL.

Tools: Git, Github, Postman, Firebase, Figma.

CO-CURRICULAR ACTIVITIES AND AWARDS

- Student Chapter Representative** of the class for the final year of Diploma. Aug 2022 – June 2023
- President** of Polyhacks Hackathon organized by Shri Bhagubhai Mafatlal Polytechnic. Feb 2023
- Secured 2nd Position** in Ignite IT Competitive programming competition with 2 colleagues. Feb 2023