Tanay Desai

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EDUCATION

Rutgers University-New Brunswick   New Brunswick, NJ
Bachelor of Science in Computer Science   *Aug. 2023 – May 2026 (Expected)*
Relevant coursework: Intro to Computer Science, Data 101, Calculus I, Data Structures, Discrete Structures.

Shri Bhagubhai Mafatlal Polytechnic   Mumbai, IN
Diploma in Information Technology   *Dec. 2020 – June 2023*
Relevant coursework: Database Management Systems, Data Structures, Advanced Web Technology, Internet Security, Human Computer Interaction, Operating Systems.

EXPERIENCE

Software Developer   Feb 2024 – Present
Rutgers OIT-EAS   *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   July. 2022 – Aug 2022
Skillsvista   *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 **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, Next.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