Mansi Sangani
Information Technology

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EDUCATION

Bachelor of Science | Information System   Jan 2023 - May 2026

NEW JERSEY INSTITUTE OF TECHNOLOGY   Newark, NJ

- Expected Graduation: Spring 2026
- Dean's List (Spring 2023)
- EOP Student

PROJECTS

Automated Code review tool

- Spearheaded the development of a tool integrated with version control systems (e.g., GitHub) to offer instant feedback on code modifications
- Enhanced team cooperation by 30% through promoting coding standards and establishing a centralized platform for code discussions
- Improved code quality by reducing production bug counts by 25%-30% and standardizing coding practices across the team

Satellite Classification

- **Leveraged Java** to integrate **API** functionality, utilizing **Object-Oriented Programming** principles, **BufferedReader**, and **File I/O** to streamline data handling
- **Engineered** a **Java** application to automate satellite data retrieval from the **CelesTrak API**
  - Improved tracking of key parameters: **inclination**, **eccentricity**, **launch year**
  - Reduced manual processing time by **30%**
- **Accelerated satellite data extraction and analysis by 40%, reducing processing time from 5 hours to 3 hours and enhancing reporting accuracy of key parameters by 25%**

Building Parser for MCL Language

- **Developed** a **C++** program to created a **Lexical Analyzer** and **Syntax Analyzer**, defining custom **grammar** to improve code analysis efficiency by **30%** and reduce compilation errors by **20%**.
- **Designed** and **implemented** a **parser** for the **MCL** to transform its source code into a meaningful representation for further processing by a compiler or interpreter
  - Reduced processing time by **20%**, enabling faster compilation and execution
- **Engineered** a translator to convert **MCL** code into machine-readable instructions, enabling the development of compilers or interpreters that support **MCL**
  - **Enhanced** software development efficiency by **30%**, laying the groundwork for future MCL compiler advancements
- **Created** a **C++**-based parser for the **MCL** language, translating source code into machine-readable instructions

Website Project: Educational Resources for Visitors

Technologies: HTML5, CSS3, Bootstrap 5, GitHub, Git, Responsive Design

- Edu Connect**EduConnect**, offering organized learning tools across subjects like Math, Science, and Study Tools.
- Implemented structured content architecture including **Home, Subjects, Flashcards, and Practice Tests** pages to support learner navigation and comprehension.
- Integrated **Bootstrap 5** components such as a carousel, resource cards, and responsive layout to enhance user experience across devices.
- Utilized **Git and GitHub** for version control and collaborative code management; deployed the site via GitHub Pages.
- Designed and coded an accessible **contact form** to collect user inquiries, encouraging feedback and engagement.
- Applied **semantic HTML and modular CSS** principles to ensure maintainability, accessibility, and SEO optimization.

EXPERIENCE

EOP Mentoring and Tutoring   Jul 2024 - Aug 2024

NEW JERSEY INSTITUTE OF TECHNOLOGY   Newark, NJ

- Mentored 50+ students through discussions and transfer to support their college transition
- **Interacted** with **100+ students** during large-scale meetings, addressing questions and providing support, improving engagement by **20%**
- **Facilitated** conflict resolution among **30+ students**, mediating issues to maintain a peaceful community and **increased student satisfaction by 15%**Assisted in conflict resolution, mediating problems among students to keep a peaceful community
- **Organized and led multiple workshops on study skills and time management, contributing to a measurable increase in student academic success and retention rates**
- Created and Time managed 50+ schedules ensuring adequate time allocation for their studies

SKILLS AND INTERESTS

Languages: Gujarati (Native), English(Advanced), Hindi(Intermediate)

Computer Skills: Microsoft Office (Word, Excel, PowerPoint), Python, Java, C++, Unity, C#, SQL, HTML, and CSS

Soft skills: Public speaking, Discipline, Problem solving, adaptability, interpersonal skills, and Teamwork

Interest: Tennis, Badminton, Table Tennis, and watching games of Cricket