

# HARSHIL DODIYA

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## EDUCATION

### University of California, San Diego

Sep 2021 - Jun 2025

Major: Mathematics - Computer Science (BS); Minor: Finance

## SKILLS AND RELEVANT COURSEWORK

Programming and Prototyping Languages: Python, Java, C/C++, Pandas, Numpy, HTML, CSS, javascript, Microsoft Office Suite (Word, PowerPoint, and Excel)

Relevant Coursework: Object Oriented Programming, Computer Organization and Systems Programming, Advanced Data Structures, Discrete Math and Graph Theory, Statistical Methods

## WORK EXPERIENCE

### Instructional Assistant, University of California, San Diego

Oct 2023 - Present

- Tutor and grader in the mathematics department for Math 20E - Vector Calculus.
- Responsibilities as a tutor include performing individual and group tutoring, holding weekly one-on-one office hours, proctoring examinations, and assisting discussion sections.
- Responsibilities as a grader include evaluating student assignments and examinations, and maintaining records of student grades.

### Programming Intern, The One Technologies, Ahmedabad, India

Jun 2023 - Sep 2023

- Collaborated with multiple departments at a leading tech firm, gaining insights into app and website architecture.
- Excelled as a Business Analyst, crafting key documents such as BRDs, User Stories, FRS, and SRS, and utilizing tools like Figma for flowcharts and wireframes.
- Partnered with the design team to enhance web and app design, utilizing HTML, CSS, Javascript, Springboot.
- Worked on a project called Employee database and helped in the implementation of employee search functionality using hash tables. Further improved the space efficiency of the search algorithm by 5% by efficiently removing redundancy in the hash table data structure.

### Computer Lab Assistant, GLS University, Ahmedabad, India

Jun 2022 - Aug 2022

- Assisted in the daily maintenance of computer labs, including shutting down computers and resolving minor technical issues.
- Provided support for various operating systems, including Linux, Windows and MacOS.
- Aided in the setup and usage of projector screens during lectures and presentations.

### Programming Intern, XMPlify, Ahmedabad, India

Aug 2021 - Dec 2021

- Immersed in the operational facets of a tech solutions firm, acquiring a breadth of insights into the tech industry's best practices and innovative solutions.
- Engaged in collaborative brainstorming sessions, helping the team identify potential areas of optimization in development processes. Gained foundational knowledge in Python fundamentals, basic functionalities of lists and dictionaries, and implemented sort functionality algorithms for a property searching website.
- Aided in the making of a Patient Health Monitoring Software. Along with other junior programmers, and caught critical errors during testing which improved efficiency and correctness significantly.

## PROJECT

### Co-Founder, SocioConnect (Social Media Platform (Initial Development Phase))

Nov 2023 - Present

- Spearheading the development of 'SocioConnect', an innovative social media application whose foundational pillars are: Effortless communication interfaces, AI-driven content personalization and sharing, and Advanced user privacy and control mechanisms
- Successfully completed the wireframing and design phases using design tools such as Figma, with the development process currently underway.
- Anticipated tasks include creating frontend interface through Kotlin and creating AI based recommendation algorithm.