

# Shrey Modi

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Google Scholar

## ABOUT ME

**Dedicated and innovative founder, manager and developer with strong interpersonal skills.** I thrive in a **fast-paced, collaborative environment**, leveraging my **communication and adaptability** to foster strong working relationships.

## ENTREPRENEURIAL EXPERIENCE

**Founder**, ResTech, Ahmedabad , India

10/2021 – 04/2022

- Led ResTech, where I spearheaded a pioneering service delivering **research-based insights** to clients through our **comprehensive all-in-one star product**. **Managed a team of six professionals** responsible for overseeing backend technology, conducting business analysis, and **developing financial models**.
- Spearheaded **client collaboration, needs assessment**, and **actionable recommendation delivery**, entrepreneurial spirit and cultivating a fervor for analysis to curate an **optimal product**, while evaluating its **alignment with market demands**.
- Elevated the startup's **revenue from \$10,000 to \$100,000** within six months by effectively collaborating with over **25 clients**.

## JUDGING EXPERIENCE

**MLH Hackathons**, Reviewer and Judge,

2021-2022

- Evaluated and scored innovative technical projects developed by participating teams during the hackathon.
- Provided constructive feedback to teams, emphasizing their strengths and suggesting areas for improvement, contributing to a positive learning environment.
- Played a pivotal role in selecting winning teams based on their mastery of programming languages, application of cutting-edge technologies, and overall project viability.

**Byte Masters Hackathon**, Reviewer and Judge,

2023

- Engaged in meticulous project evaluation by thoroughly examining each team's submission. This involved assessing the technical implementation, design, creativity, and practicality of the solutions presented.
- Demonstrated a commitment to fostering a growth-oriented environment by providing detailed and constructive feedback to participating teams. I emphasized their project's strengths, offered insights into areas for enhancement, and encouraged them to continue refining their technical skill

## EDUCATION

**California State University Long Beach**

Long Beach, California

Master of Science in Computer Science

Expected: January 2025

**Charotar University of Science and Technology (CHARUSAT)**

Anand, India

Bachelor in Technology in Information Technology

July 2022

## SKILLS

**Programming Languages:** Python, JavaScript, C, C++, SQL

**Software Development:** Object-Oriented Design, Data Structures and Algorithms

**Frameworks:** Django, Flask, Bootstrap

**Databases:** MySQL, SQLite

**API Development:** Django REST Framework, Postman

**Operating System:** Linux, macOS, Windows

**Tools:** Git, CI/CD Pipelines, Kubernetes, Docker

**Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn

**Cloud Technologies:** AWS, Microsoft Azure, Google Cloud

**Business Acumen:** Strategic Thinking, Market Research,

Financial Modelling, User-Centric Focus

**Product Acumen:** Product Design Concepts, Product

Roadmapping

## EXPERIENCE

**Graduate Research Assistant**, California State University Long Beach, Long Beach , USA

07/2023 – present

- Applying **machine-learning techniques** and **causal inference** to tackle **CWE vulnerabilities**, amplifying hardware, and software security. Solving hardware security to see if it can be solved in any **product**.
- Designing **data-centric strategies** to strengthen hardware and software frameworks, preemptively countering potential threats. Aiming for proactive, robust defense mechanisms to ensure system integrity and resilience.

**Research Intern**, Physical Research laboratory(PRL), Ahmedabad , India

05/2022 – 11/2022

- Employed **data mining, image processing**, and **CNN-based U-net architecture** to detect water and ice particles within lunar permanently shadowed regions (PSRs). Achieved advanced insights into lunar composition using **Data engineering**.
- Surveyed diverse PSRs using **image enhancement techniques**, contrasting prediction strength against the HORUS baseline model. Validated algorithm effectiveness and improved the detection accuracy from **76% to 84%**.

**Software Developer Intern**, Firecamp.io, Surat , India

04/2020 - 09/2020

- Utilized backend aid for **REST API** and **web socket** package. Created Firecamp's Predefined **GraphQL** queries for dataset generation, training their **recommendation tool** on the multi-tiered systems.
- Conducted Automated API and **JSON payload tests** for **HTTP**, **web socket**, and **socket.io** requests. Formulated auto **JSON schemas** for uniform format.