

PRINCE MODI

princebmodi@outlook.com | princemodi.me

Work Study Eligible Master's student in Computer Science. Proven reliability and clear communication with diverse experience in data analysis, Python, and technical support. A dedicated problem-solver.

EDUCATION

University of California San Diego | *Master of Science in Computer Science*

Sep 2025 – July 2027

Relevant Coursework: Graduate Principles of Software Engineering (Team Management focus).

Ganpat University, India | *Bachelor of Technology in Computer Engineering*

Aug 2018 – July 2022

GPA: 3.96/4.00

CORE COMPETENCIES

- Project Management:** Lifecycle management, risk assessment, resource allocation, and scalability planning.
- Communication:** Technical writing, public speaking, conference presentation, and stakeholder reporting.
- Research & Analysis:** Data synthesis, user experience (UX) research, and process optimization.
- Leadership:** Mentorship, community outreach, and event planning.

RELEVANT TECHNICAL SKILLS

- Programming:** Python (Proficient), Java, C, SQL, Basic HTML/CSS.
- Data Analysis:** Pandas, NumPy, Matplotlib, Regression Analysis, Data Visualization.
- Systems & Platforms:** Git (Version Control), Docker, Linux/Unix Command Line, AWS (EC2), SSH.
- Productivity & Tools:** JIRA, Confluence, Microsoft Office Suite (Word, PowerPoint, Excel), VS Code.

PROFESSIONAL EXPERIENCE

Indian Institute of Science (IISc), Bengaluru

Project Associate (Distributed Systems)

Jan 2023–Nov 2024

Developing a federated learning framework

- Co-led the end-to-end development of a large-scale distributed framework (Flotilla), coordinating resources across 1000+ endpoints and ensuring 92.5% operational efficiency at scale.
- Synthesized complex data from state-of-the-art research to optimize system performance, resulting in a ~30x reduction in operational overhead.
- Authored comprehensive analytical reports and presented research findings at major international conferences (HiPC, IROS).

Autonomous drones for path planning

- Collaborated directly with visually impaired individuals to identify needs and test assistive drone technology, translating user feedback into actionable product improvements.

Sterlite Technologies Limited, Ahmedabad

Software Engineering Intern (Intellza)

Jan 2022 – Aug 2022

- Analyzed existing workflows and implemented automation strategies that reduced pipeline build times by 50%, significantly increasing team productivity.
- Partnered with cross-functional teams to integrate new tracking modules, improving version control and data reliability for internal systems.

LEADERSHIP & COMMUNITY INVOLVEMENT

Student Learning Initiative | *Co-Founder & Program Lead*

Aug 2019 – July 2022

- Founded and led a peer-learning group dedicated to creating inclusive educational environments and democratizing access to technology resources.
- Organized and coordinated a series of seminars featuring industry veterans to provide career mentorship to students.

Indian Institute of Science (IISc) | *Graduate Teaching Assistant*

Jan 2023 – Nov 2024

- Mentored a diverse cohort of students from varied academic backgrounds (engineering, physical sciences), providing personalized support to bridge knowledge gaps.
- Facilitated graduate-level coursework, balancing the needs of advanced students with those requiring foundational support to ensure collective class success.