Surya Sharma

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EDUCATION

Ithaca College   Aug. 2021 – May 2025
*B.S. Computer Science, Mathematics minor | **GPA**: 3.7/4.0*   *Ithaca, NY*

- **Relevant Courses**: Data Structures and Algorithms, Computer Networks, Human-Computer Interaction, Computer Organization and Systems, Web Development, Mobile Development, Database Systems, Machine Learning
- **Honors**: Pi Mu Epsilon, Dean's List Spring '24, Peggy Ryan Williams Award for Academic and Community Leadership, Newton Award (For top 5% students excelling in 100-level math courses), Ramanujan Award (For top 5% students excelling in 200-level math courses)

RESEARCH EXPERIENCE

ICGenius   May 2024 - Present
Summer Scholar, School of Humanities and Sciences, Ithaca College   *Ithaca, NY*

- Led development of ICGenius, a web app for Ithaca College students and professors, featuring BomberBuddy—an AI Assistant powered by **OpenAI's API** that provides personalized, course-based answers from professor-uploaded materials
- Collaborate with 2 students under Dr. John Barr to design and implement the front end using **Figma, JavaScript, and React**
- Currently building the Socratic method with **GPT-LLM**, enabling interactive question-answer dialogues to deepen student understanding

MazeWorld   Jun. 2024 - Sept. 2024
Research Assistant, Virtual Embodiment Lab, Cornell University   *Ithaca, NY*

- Worked with Dr. Andrea Stevenson Won (Cornell), Dr. Miki Matsumuro (Cornell), Dr. Stephen Gilbert (Iowa State), and Stephen Fieffer (Iowa State) to develop a Unity-based VR game, using **C#**, to design role-specific tasks (explorer, collector, tactical) for a 3D maze to evaluate team communication. Co-authored a research paper under review with IEEE
- Implemented a Bezier curve-based teleportation locomotion system and applied realistic brick textures to the 3D maze, reducing motion sickness by 20%
- Tested joystick and teleportation locomotion methods, increasing participant communication effectiveness by 25%

Artrie   May 2023 - Aug. 2023
Summer Scholar, School of Humanities and Sciences, Ithaca College   *Ithaca, NY*

- Developed an Augmented Reality mobile app in **Swift** for Architecture Department, allowing students to place 3D models in real-time at specific map locations using **MapKit**
- Built a quiz interface that pulls data from an **API**, enabling professors to assess students' knowledge
- Proposed using photogrammetry to allow users to create 3D model from captured images

WORK EXPERIENCE

Web Director   Jan. 2024 – Present
Ithaca, NY   *The Ithacan*

- Collaborate with the design team to launch interactive games (Sudoku and Crossword), increasing average engagement duration by 11%
- Improve website performance for 300+ daily visitors through 2–4 weekly backend updates, resolving broken links, formatting errors, and plugin issues, boosting user experience by 15%
- Analyze **Parse.ly** analytics to produce weekly performance reports, providing insights that increase content reach by 10% over 7 months

Junior Web Developer   Aug. 2022 – Present
Information Systems and Analytics, Ithaca College   *Ithaca, NY*

- Design a **Figma**-based mobile app prototype for Ithaca College, improving interface usability by 20% through stakeholder collaboration
- Update **JavaScript** code for the Ithaca College website to ensure content and functionality remain current

- Automate Nutrislice menu updates by integrating **pivot tables** in **Excel**, streamlining the process to reduce manual efforts by 30% and improving accuracy for 7-day scheduling
- Revamp 10+ IC Service Portal guides, increasing self-service use by 25% and reducing support inquiries by 10%

Learning Coach Mar. 2022 – Present

Tutoring and Enrichment Services, Ithaca College *Ithaca, NY*

- Tutor 10 students on **calculus, K-means clustering, matrix multiplication, permutations, combinations, and probability,** creating personalized study plans that improve exam and assignment scores by 10% on average
- Tutor 6 students in complex Java concepts like **trees, graphs, arrays, linkedlists, stacks, queues, and heaps,** helping them improve exam scores by 8%
- Assist students with debugging and optimizing code in **Java, C, JavaScript, React, R,** and **Swift**

Orientation Mentor May. 2022 – Aug. 2024

New Student and Transition Programs, Ithaca College *Ithaca, NY*

- Led and facilitated orientation sessions for over **1200** incoming students per year, providing guidance and support during their transition to college life.
- Coordinated and assisted **40+ events** for first-year students, including workshops, campus tours, and social activities, resulting in a **90%** attendance rate.
- Mentored a group of **20 new** and transfer students, offering academic and personal advice.
- Collaborated with a team of **60** orientation leaders, **6** orientation mentors, and **8** campus staff members, ensuring the execution of 5 days of orientation improving overall event satisfaction by **20%** based on student feedback

LEADERSHIP

President Apr. 2024 - Present

Girls Who Code at Ithaca College *Ithaca, NY*

- **Started** a club to create a welcoming environment for women and non-binary in tech by organizing networking events, social gatherings, and peer mentorship.
- Secured **$250** from Girls Who Code Organization in funding for club activities, using the budget to provide materials, food, and prizes for events, increasing club participation by **20%**.
- Coordinated resume-building and portfolio workshops, helping **15+** students explore research and job opportunities in tech-related fields.

President Apr. 2024 - Present

Astronomy Club at Ithaca College *Ithaca, NY*

- Organized **10+** stargazing events, engaging **30+** participants in telescope observations of the night sky.
- Led outreach programs that educated over **150** community members about astronomy and space science.
- Collaborated with **5+** clubs and organizations to host interdisciplinary activities, increasing engagement in STEM and arts fields.