

# Rohan Hejmadi

281-903-0530 | [rohejmadi@gmail.com](mailto:rohejmadi@gmail.com) | [linkedin.com/in/rohanhejmadi](https://www.linkedin.com/in/rohanhejmadi) | [rohanhejmadi.com](https://rohanhejmadi.com)

## EDUCATION

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### University of Illinois Urbana-Champaign

*B.S. Engineering, transferring to Mathematics & Computer Science*

**GPA:** 3.97/4.0

**Relevant Coursework:** Data Structures, Discrete Structures, Calculus, Differential Equations, Linear Algebra, Numerical Methods, Statistics and Probability, Intro to Higher Math

*Urbana, IL*

*Expected May 2028*

### Dulles High School — Math and Science Academy

**GPA:** 4.45/4.0

*Sugar Land, TX*

*Graduated May 2024*

## TECHNICAL SKILLS

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**Languages:** Python, Java, C++, Rust

**Cybersecurity:** Networks, Binary Exploitation, Ghidra, SQLi, XSS, Cryptography, OSINT, GDB

**Developer Tools:** Git, VS Code, Make, PowerShell, Bash, Docker

**Other:** Microsoft Office (Word, Excel, Outlook, Teams), Google Workspace (Docs, Sheets), Website Design/Management

## EXPERIENCE

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### Course Assistant — CS 101 (Intro to Computing)

*Siebel School of Computing and Data Science*

*Feb 2025 – Aug 2025*

*Champaign, IL*

- Provided hands-on technical support to students, setting up and troubleshooting course software including PrairieLearn, PrairieTest, and Jupyter Notebook so configuration and access issues did not disrupt their work
- Mentored 35 students through weekly Python labs and led exam review sessions for groups of up to 50, debugging code and explaining technical concepts clearly to users with a wide range of experience
- Tested and audited nearly 500 homework problems, documenting broken code, edge-case failures, and grading inconsistencies to maintain consistent assessment quality across the course

## PROJECTS

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### Personal Website | HTML, CSS, JavaScript, GitHub Pages

[rohanhejmadi.com](https://rohanhejmadi.com)

- Built and deployed a personal portfolio site on a custom domain via GitHub Pages, accumulating 5,000+ unique visitors
- Authored a technology/career blog and curated a downloadable gallery of personal travel and nature photography
- Built a site stats page tracking unique visitors, HTML loads, and requests over time, with an interactive graph, time-range filter, and a day-by-day record

### Mirror Maze | React, JavaScript, Babel

[rohanhejmadi.com/games/mirror\\_maze.html](https://rohanhejmadi.com/games/mirror_maze.html)

- Designed and developed Mirror Maze, an embedded browser-based puzzle game where players place and rotate mirrors on a grid to redirect colored laser beams toward matching targets
- Implemented beam propagation logic with reflection geometry, multiple beam colors, and real-time win-condition detection
- Engineered the game in React via CDN with in-browser JSX transpilation via Babel

## LEADERSHIP & INVOLVEMENT

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### SIGPwny — Capture the Flag (CTF) Team

*Urbana, IL · Aug 2025 – Present*

- Ranked top 10 on the SIGPwny CTF leaderboard with 60+ solved challenges; specialize in web exploitation and OSINT
- Placed 11th in the Advanced Division of Fall CTF 2025, solving 50+ challenges across multiple security categories
- Train weekly through workshops on web hacking, reverse engineering, binary exploitation, and cryptography

### Illini Solar Car — Power Distribution System (PDS) Team

*Urbana, IL · Aug 2025 – May 2026*

- Worked on the precharge board for the Power Distribution System in KiCad — circuitry that limits inrush current during high-voltage contactor closure to protect downstream power electronics from voltage transients
- Characterized lithium-ion battery cells by measuring voltage, current, and capacity under controlled discharge to verify pack consistency
- Trained in PCB soldering and desoldering on prototype boards to support assembly and rework workflows

### Mu Alpha Theta — Vice President

*Sugar Land, TX · Sep 2020 – May 2024*

- Spearheaded the school's first-ever math competition, drawing 200 participants and raising \$2,500+ for club initiatives
- Designed math activities and team-based games for 100+ members; coordinated with 9 officers and 2 sponsors

## HONORS & AWARDS

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- 2× Grainger Engineering Dean's List, University of Illinois Urbana-Champaign
- 2024 U.S. Presidential Scholar Candidate
- 2022 AIME (American Invitational Mathematics Examination) Qualifier — top 2.5% of U.S. high school students
- 2024 Stanford Math Tournament — Distinguished Honorable Mention, Algebra
- 2024–2028 Westlake Dependent Scholarship recipient
- 2024 UIL District Meet — Gold Medalist (Individual Biology, Team Science); Bronze Medalist (Individual Science)