

Daniel Steiner

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EDUCATION

The University of Chicago B.S. Mathematics & Computer Science	2026-2030
Chatham High School High School Diploma	June 2026
Weighted GPA: 4.56/4.00 SAT: 1570 AP Scholar with Distinction: 5s on 14 APs	
Activities: Research Club President; Computer League President; Academic Team Treasurer; Class Treasurer; Varsity Men's Foil Fencing	

PROJECTS

Adaptive Multi-Scale Image Compression <i>U.S. Patent Pending</i>	2025-2026
- Developed and benchmarked a custom lossy image codec; achieved mean 500:1 compression at 22.2 dB PSNR on the Kodak PhotoCD dataset, producing 40% smaller files than JPEG while maintaining higher reconstruction quality. - Implemented in Java, using greedy approximation, summed-area tables for constant-time candidate scoring, and stochastic coarse-to-fine search.	
RimWorld Mod <i>Independent Developer</i>	2024-2026
Developed and published a C# and XML RimWorld mod with 18K+ downloads; implemented heuristic logic to improve gameplay behavior and runtime efficiency.	
WikiMapping <i>Data Science Project</i>	2024-2026
- Crawled and indexed 10M+ Wikipedia pages and 350M+ directed links in Python, storing graph data in SQLite with forward/reverse adjacency structures for large-scale analysis. - Built Flask REST APIs with BFS and ranking algorithms; visualized the graph interactively using Sigma.js, Graphology, and ForceAtlas2.	
Combat Robot <i>GSCRL Competitor</i>	2026
Designed and built Bruiser, a 3-lb combat robot for GSCRL competition using Fusion 360, custom-machined components, and iterative drive/weapons testing.	

LEADERSHIP & ACTIVITIES

CS Base <i>Technical & Finance Lead</i>	2022-2026
- Lead a 501(c)(3) nonprofit with 50+ chapters; raised \$30K+ and delivered CS education to 2,500+ students. - Coordinate an annual free summer camp at the Library of the Chathams for 100+ students, overseeing curriculum, volunteers, and programming. - Organized two hackathons with 1,000+ participants; received the NJ Governor's Volunteerism Award for Service Through STEM.	
Chatham Robotics <i>Team Captain</i>	2022-2026
- Captain Chatham High School's robotics team; led 12 members in meetings, robot design, and competition preparation. - Innovate Award 1st place, Connect 2nd place, Control 2nd place.	
NJ Governor's STEM Scholars <i>Technical Lead</i>	2024-2025
Led a team of five developing an autonomous medicine delivery robot; presented technical work to industry experts at a STEM conference.	
Scouts BSA, Troop 8 <i>Senior Patrol Leader; Eagle Scout</i>	2019-2026
Planned and coordinated campouts and weekly meetings for 100+ participants.	
American Legion Jersey Boys State <i>State Senator</i>	Summer 2025
Elected State Senator, placing in the top 3% of approximately 900 participants; Drafted and debated policy proposals on AI in education.	

TECHNICAL SKILLS

Languages: Python, Java, C#, JavaScript, SQL
Libraries/Tools: PyTorch, TensorFlow, NumPy, Git, Flask, Azure, Fusion 360, XML
Technical Areas: Computer vision, graph theory, compression, robotics

AWARDS & HONORS

- Top 1% picoCTF 2026 cybersecurity competition
- Presidential Volunteer Service Award Gold - 350+ service hours

WORK EXPERIENCE

Centercourt Athletic Club of Chatham <i>Counselor</i>	Chatham, NJ Summer 2026
Supervised groups of 20+ campers, taught tennis fundamentals, and coordinated daily activities and group logistics.	
Chatham High School <i>Robotics Intern</i>	Chatham, NJ Spring 2026
Developed robotics and Python curriculum for 60+ students and led Fusion 360 CAD projects involving custom-designed mechanical components.	