

Alexander Cote

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Summary

As a Computer Science Junior at Rensselaer Polytechnic Institute, I combine expertise in programming, algorithms, and system design with a strong proficiency in teamwork and collaboration. My education has honed my problem-solving skills and adaptability in team-oriented tech environments. Eager to apply my skills in real-world settings, I am prepared to contribute innovative solutions and collaborate effectively in the computing field.

Education

Rensselaer Polytechnic Institute | Troy, NY

- School of Sciences: Dual Major in Computer Science and Information Technology
- Expected Graduation May 2026
- Relevant Course Work
 - **Computer Science:** Operating Systems, Computer Organization, Principals of Software
 - **IT Web Science:** Web Systems Development, Modern Binary Exploitation, Managing IT Resources

Skills

- **Languages and Tools:** Python, C++, Java, JavaScript, HTML5, CSS, SQL, PHP, React, Node.js, Mongo DB
- **Platforms:** Microsoft Azure, GitHub
- Strong analytical and problem-solving skills
- Quick adaptability to new technologies and methodologies

Projects

- **Web Systems Development (Fall 2023):** Developed an online exchange marketplace with a team of five, utilizing HTML5, JavaScript, CSS, PHP, MySQL, and Bootstrap for a merchandise catalog and customer identity management.
- **Web Systems Development (Spring 2024):** An online wardrobe manager for Spring 2024 that will utilize a React, Node.js, MongoDB development stack. It also includes a custom API for secure data exchange and information sharing.

Experience

Troy Area United Ministries | Troy, NY

Computer Science Instructor | 01/2025 - Present

As a Computer Science Instructor, I designed and taught a multi-week web development course for high school students, covering HTML, CSS, JavaScript, and AI tools like ChatGPT. I created interactive lessons and hands-on projects, adapting the curriculum for limited computing resources by using browser-based coding platforms. I helped students develop problem-solving skills, troubleshoot code, and gain confidence in programming.

Briggs Comer Pizzeria

Counter Staff Lead | 04/2021 - 08/2023

As the Counter Staff Lead, I successfully managed and organized over 400 orders nightly, demonstrating strong leadership and exceptional organizational skills in a high-pressure environment. My role involved significant customer interaction and team coordination, where I excelled in resolving customer issues, monitoring staff work hours, and onboarding new hires.

Leadership

- **Alpha Chi Rho: Delta Phi Maintenance Chair (2024 - Present):** Coordinate Managed the cleanliness, upkeep, and maintenance of the fraternity house, coordinating routine maintenance and cleaning schedules
- **Robotics Team Captain (2019 - 2022):** Led the Bishop Feehan High School robotics team to competitive success by fostering teamwork, driving technical project development, and implementing strategic planning.
- **AAU Youth Baseball Coach (2019 - 2022):** Mentored young athletes in skill development, teamwork, and sportsmanship, utilizing strong leadership and communication abilities.

