# 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**
**Computer Science and Information Technology**

- 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:** Managing IT Resources, Web Systems Development, Modern Binary Exploitation

## 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

## Experience

**Troy Area United Ministries | Troy, NY**
**Computer Science Instructor | 01/2025 - 05/2025**
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 Corner Pizzeria**
**Counter Staff Lead | 04/2021 - 05/2023**
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.

## Projects

- **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.
- **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.

## Leadership

- **Alpha Chi Rho: Delta Phi Maintenance Chair (2024 - Present)**: Coordinate and manage the cleanliness, upkeep, and maintenance of the fraternity house, while creating routine maintenance and cleaning schedules.
- **Alpha Chi Rho: Delta Phi Computer/Server Chair (2024 - Present)**: Manage and maintain the internet network for over 30 members and 100+ devices across 3 houses. I am responsible for overseeing the setup, configuration, and troubleshooting of network equipment, ensuring optimal performance and security.