MADELYN NOVELLI

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EDUCATION

Georgia Institute of Technology - Atlanta, GA   *August 2021 – May 2025*
- Candidate for Bachelor of Science in Computer Science   Dean's List
- Concentrations: Information Internetworks, Human-Computer Interaction (HCI)

EXPERIENCE

Verizon   **Branchburg, NJ**
Network Engineering Intern   *June 2024 – August 2024*
- Integrated Red Hat's Kepler power-monitoring platform to monitor carbon dioxide emissions and power consumption of pods and containers in the North Seattle cluster
- Deployed cpufrequency container image within Kubernetes to dynamically reduce power consumption

Verizon   **Branchburg, NJ**
Network Engineering Intern   *June 2023 – August 2023*
- Developed and automated inventory management system leveraging OpenShift API and Redfish technology to collect and organize essential hardware details from multiple bare metal server clusters
- Improved and facilitated inventory tracking and strategic decision-making for maintenance and upgrades
- Designed user-friendly interface for accessing and visualizing hardware information

PROJECTS

Embedded System Cyber Security   **Atlanta, GA**
Student Researcher   *August 2023 – present*
- Examine and assess security vulnerabilities of IoT hardware devices through hardware reverse engineering, software/firmware analysis, and static and dynamic testing using Ghidra
- Develop and spoof surrogate device for the Signaling Line Circuit network of a wireless fire alarm system using an Arduino microcontroller

Drone Dispatch Delivery System   **Atlanta, GA**
Team Member   *January 2024 – May 2024*
- Designed and implemented a database application with an Enhanced Entity-Relationship Diagram (EERD) and relational schema for a fictional drone delivery service company using MySQL

Enchanted Quest Adventure Game   **Atlanta, GA**
Game Developer   *August 2023 – December 2023*
- Collaborated in a team to develop a 2D Dungeon Crawler Adventure Game using Java across five two-week Sprints following the Agile project management methodology
- Implemented core gameplay mechanics, including various levels, a leaderboard, and start/configuration/end screens, while integrating object-oriented design principles

LEADERSHIP

Collegiate Panhellenic Council   **Atlanta, GA**
Director of Educational Programming   *December 2022 – December 2023*
- Developed and executed impactful events centered on health and wellness for over 1,500 members of Panhellenic community
- Collaborated with campus organizations to plan and deliver successful events

Phi Mu, Theta Zeta Chapter   **Atlanta, GA**
Activities Chairwoman   *December 2022 – December 2023*
- Led the organization of intramural teams by appointing captains, overseeing practice coordination, and managing timely submissions of all entry fees to the Student Athletic Complex
- Maintained comprehensive database of all information pertaining to office
- Facilitated involvement of nearly 200 chapter members in campus-wide events and activities

SKILLS

Spoken Languages:	Conversational Spanish, fluent English
Software/Applications:	Java, C, Python, Node.js, MySQL, PostgreSQL, R, HTML, CSS, JavaScript, Tableau, Git, Jira
Concepts:	Object-Oriented Development, Agile Methodology, Network Engineering, Version Control