Allison Reel

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EDUCATION

Smith College | Northampton, MA   Aug. 2021 – May 2025
    Bachelor of Arts Major in Computer Science, Minor in Landscape Studies, GPA 3.87
Codepath Intermediate Web Development Course   Sept. 2024 – Dec. 2024
Codepath Intermediate Technical Interview Prep Course   June 2023 – Aug. 2023
Cornwall Central High School | New Windsor, NY   Sept. 2017 – June 2021

SKILLS

- **Programming Languages:** Python, Java, JavaScript, TypeScript, C, Assembly, R
- **Tools & Frameworks:** Git, Angular, React, HTML, CSS, CUDA, Blender, ArcGIS Online, ArcGIS Pro

EXPERIENCE

Smith College Cho Lab - Networks Student Researcher | Northampton, MA   Sept. 2024 – May 2025
- Optimized landmark selection algorithms using Python Pandas and RIPE Atlas data to improve the efficiency of active geolocation by reducing the input landmarks required to accurately locate a set of target IP addresses

M&T Bank - Software Engineer Intern | Buffalo, NY   June – Aug. 2024
- Developed and tested a mortgage web application using Angular 18, modernizing and combining four existing .NET applications, which improved user experience, design, and streamlined processes
- Collaborated with team members during standup and sprint planning meetings using the agile scrum framework to strengthen team communication and project efficiency

Smith College Music Department - Music Office Assistant | Northampton, MA   Sept. 2022 – May 2025
- Monitored department email to respond promptly to inquiries, RSVPs, and Google form submissions, while maintaining Excel spreadsheets for tracking and organization of department activities and resources

Smith College Greenway Lab - GIS Student Researcher | Northampton, MA   Sept. 2023 – Dec. 2024
- Assisted in supporting the Mill River Greenway through map creation and conducting spatial analysis in GIS programs

Smith College Music Department - Student Event Manager | Northampton, MA   Feb. 2022 – Dec. 2024
- Managed front and back of house operations and performer coordination by assisting patrons, tracking attendance, setting up the performance stage, and coordinating venue lighting to ensure smooth and successful event execution

Tory Burch - Sales Support | Central Valley, NY   July 2023 – Jan. 2024
- Utilized computer system to maintain customer accounts, process payments, and issue receipts, change, store credit, or refunds, ensuring smooth customer transactions and enhanced brand marketing efforts

PROJECTS

Commemorative StoryMap of 1874 Mill River Flood | ArcGIS & ArcGIS StoryMaps   StoryMap
- Consulted with local historians to create an interactive walking tour map that highlights key historic locations

3D Animation Loop | WebGL JavaScript & Blender   GitHub
- Designed and implemented a 3D animation loop to showcase the integration of Blender models into JavaScript

Text-Based Escape Room Game | Java & Google Guava Library   GitHub
- Programmed a text-based escape room game, including in-game puzzles and narrative story elements, utilizing the Guava Library to model the graph data structure

Editable Visual Calendar | Python Graphics Library   GitHub
- Developed a calendar application that includes drag-and-drop functionality and ability to read from or write to a file

ACTIVITIES

Smith College Campus Planning Committee | Student Representative   Sept. 2023 – May 2025
- Advised on campus construction and design projects through the Smith College Landscape Master Plan ideals

Robotics Outreach Initiative | Curriculum Team Member   Jan. 2023 – Dec. 2024
- Created and designed outreach program curriculums to teach engineering and computer science fundamentals