

Allison Reel

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EDUCATION

Smith College

Bachelor of Arts Major in Computer Science, Minor in Landscape Studies, GPA 3.87

Aug. 2021 – May 2025

Northampton, MA

Cornwall Central High School

Sept. 2017 – June 2021

SKILLS

- **Programming Languages:** Python, R, SQL, Java, JavaScript, TypeScript, HTML, CSS, C, Assembly
- **Tools & Frameworks:** Git, Angular, React, CUDA, Blender, ArcGIS Online, ArcGIS Pro
- **Collaborative Work & Support:** Teamwork, Time Management, Organization, Agile Scrum, Customer Service, Retail Support
- **Technical Proficiencies:** Computer Programming Languages, Cash Register Systems, Customer Databases, Microsoft Office, Excel, Atlassian Jira

EXPERIENCE

Smith College Cho Lab

Sept. 2024 – May 2025

Networks Student Researcher

Northampton, MA

- 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

June – Aug. 2024

Software Engineer Intern

Buffalo, NY

- 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

Sept. 2022 – May 2025

Music Office Assistant

Northampton, MA

- Managed departmental email communications to promptly respond to inquiries, RSVPs, and form submissions, demonstrating strong written communication skills essential for translating technical details for diverse audiences
- Utilized Microsoft Office and Google Suites to maintain Excel and Docs sheets for tracking and organizing department activities

Smith College Greenway Lab

Sept. 2023 – Dec. 2024

GIS Student Researcher

Northampton, MA

- Assisted in supporting the Mill River Greenway through map creation and conducting spatial analysis in GIS programs

Smith College Music Department

Feb. 2022 – Dec. 2024

Student Event Manager

Northampton, MA

- 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

PROJECTS

Restaurant/Cafe Finder | React JavaScript & Google Places API

[GitHub](#)

- Web application to locate either restaurants or cafes within 5 miles of user's current location or desired input city and state

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