

# Paul Carlson

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## Education

### Rensselaer Polytechnic Institute

Bachelor of Computer Science & Bachelor of Information Technology and Web Science

GPA: 3.55

**Aug. 2024 – Present**

Troy, NY

## Relevant Coursework

- Data Structures
- Matrix Algebra
- Multivariable Calculus
- Intro to Information Technology and Web Science

## Experience

### East-SouthEast, LLC

Web & Geospatial Technology Intern

**May 2025 – Present**

Chatham, MA

- Overhauled the front-end architecture for 9 town web maps, migrating a legacy system to a dynamic, centralized GitHub Pages repository.
- Reduced universal update deployment time from hours to under 2 minutes, eliminating code redundancy and solving a critical maintenance bottleneck.
- Engineered a suite of advanced features to drive user engagement and create commercial value, including a dynamic legend, viewport bookmarking, and an on-click parcel info tool.
- Developed a custom multi-page printing feature with saveable client profiles and configurable map layers, designing it as a premium tool for a future subscription model.

### Sweet Dreams Ice Cream & Candy

Team Manager & Sales Associate

**May 2023 – Present**

Chatham, MA

- Managed daily store operations, including opening/closing procedures and staff oversight.
- Optimized inventory and deliveries to meet customer demand.
- Resolved customer issues and ensured a high-quality service experience.

## Projects

### Interactive Web Map Modernization | East-SouthEast, LLC Internship

- Architected and built a full-featured, professional-grade web mapping application from a legacy system, serving 9 separate towns from a single, dynamic codebase. Engineered a suite of commercially valuable features including a multi-page custom printing utility.

### Munsell Color Mapper | East-SouthEast, LLC Internship

- Architecting a full-stack mobile application using Python and Swift to automate the identification of Munsell soil colors from a photo, designed with offline functionality for remote field use.
- Engineered custom Python algorithms to analyze image RGB values and accurately match them against a database of official soil color codes.

### EV Charging Site Analysis | HackRPI 2024

- Developed a Python-based analytical tool during a 24-hour hackathon to identify optimal locations for new EV charging stations based on population density and existing infrastructure data.
- Engineered an interactive map as a proof-of-concept for the "Urban Upgrades" challenge, demonstrating a data-driven approach to improving city infrastructure.

## Technical Skills

**Languages:** Python, JavaScript, Swift, C++, HTML/CSS, TypeScript, PHP

**Frameworks & Technologies:** Mapbox, MongoDB, Azure, Node.js

**Developer & Geospatial Tools:** GitHub, QGIS, VS Code, GPS & Total Stations

## Leadership / Extracurricular

### RPI Ski Club

Executive Board, Social Media Chair

**Fall 2024 – Present**

Fall 2024 – Spring 2025

### Fraternity | Phi Gamma Delta (Tau Nu)

Stewardship & Public Relations Chair

**Spring 2025 – Present**

Spring 2025 – Present

- Manage the fraternity's Instagram presence to promote philanthropic events and manage the chapter's household logistics, including meal plan budget and supply procurement.

### Eagle Scout | Boy Scouts of America

**Nov. 2023**

- Led a team to build and install three community benches, managing the project from initial design and fundraising to final installation.