

# Joseph Cangemi

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## SUMMARY

GIS Specialist with 2.5 years of experience and a graduate background in Geographic Information Science & Technology from UMass Amherst. Proven ability to design and deploy interactive GIS dashboards for transportation, environmental, and social justice applications—including projects for MassDOT, a local environmental organization, and a nonprofit focused on reentry support. Passionate about environmental stewardship and proactive in learning open-source GIS tools. Skilled in ArcGIS, data management, and resource mapping.

## EDUCATION

**University of Massachusetts Amherst** | Amherst, MA Feb 2023 – Dec 2024  
Master of Science in Geography – GIST (Geographic Information Science & Technology) • GPA: 3.9  
**Boston University** | Boston, MA Sep 2019 – May 2023  
Bachelor of Arts in Mathematics, Minor in Computer Science • Major GPA: 3.7 • Dean's List 5 semesters

## WORK EXPERIENCE

**18b TIP – Suffolk County Assigned Counsel Defender Plan** | Central Islip, NY Jan 2025 – present  
*GIS Specialist*

- Developed an interactive GIS dashboard for social workers and legal professionals to access location-specific and personalized resources for formerly incarcerated individuals, improving social support and outreach.
- Enhanced usability through clear categorization, filtering tools, and user guidance.
- Coordinated with program supervisors to progress project by communicating resource needs, identifying next steps, gathering information, expanding content, and providing ongoing technical support and training staff.

**Massachusetts Department of Transportation** | Boston, MA Jun 2024 – Oct 2024  
*GIS Intern*

- Collaborated with a team to modernize speed regulation data and analysis by digitizing paper records into GIS.

**New York Community Bank** (now Flagstar Financial) | Hicksville, NY Jun 2023 – Aug 2023  
*Model Risk Management Intern*

- Supported model validation and produced clear data visualizations for internal reporting.

## VOLUNTEER EXPERIENCE

**The Charles River Conservancy (CRC)** | Cambridge, MA Apr 2023 – present  
*C.R.E.W. Steward* (Charles River Environmental Watch)

- Trained in various invasive species identification, documentation, and management.
- Collects litter and represents the CRC in urban parks, contributing over 80 hours of volunteer work.
- Monitors vegetation and records field data for the CRC's restoration effort in Hell's Half Acre, Cambridge.

## PROJECTS

**Vegetation Monitoring Data Dashboard** Oct 2024 – Dec 2024

- Produced an online GIS dashboard to visualize vegetation growth and inform restoration planning.
- Utilized FME to help standardize inconsistent data reported by volunteers in order to keep information accurate.

**Exploring Charles River Basin: 1777 to Today** May 2024, Dec 2024

- Designed a static map georeferencing historical changes in the Charles River amid Boston's urban development.

## SKILLS

**GIS & Visualization:** ArcGIS (dashboard design and spatial mapping), QGIS (open-source spatial analysis), FME (data standardization), Leaflet (interactive web maps), Adobe Illustrator (map design and layout from academic projects)

**Programming & Data:** Python and R (used in coursework for data processing and visualization), SQL (querying spatial datasets), HTML/CSS/JavaScript (used in web maps and personal projects), Microsoft Excel (data organization)

**Collaboration Tools:** Microsoft Teams, Zoom, SharePoint, Google Workspace