

# Joseph Cangemi

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## SUMMARY

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Motivated GIS Technician with 2.5 years of experience and a graduate background in Geographic Information Science and Technology from UMass Amherst. Completed a practicum at MassDOT, digitizing geographic data to enhance transportation systems. Served as the sole GIS specialist for a nonprofit supporting formerly incarcerated individuals in Suffolk County, NY, where I built a resource dashboard using ArcGIS Experience Builder. Additionally, developed a public-facing GIS dashboard for a local environmental organization to improve accessibility of research.

Passionate about environmental stewardship and self-driven in learning open-source GIS tools.

Skilled in ArcGIS, data management, and resource mapping.

## EDUCATION

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**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

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

*GIS Technician*

- Developed an interactive GIS dashboard to centralize community resources for formerly incarcerated individuals.
- Mapped location-specific services to support personalized, accessible outreach.
- Enhanced usability through clear categorization, filtering tools, and user guidance.
- Provided ongoing support by training staff, expanding content, and maintaining technical functionality.

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

*GIS Intern*

- Modernized speed regulation data by digitizing paper records into a GIS layer, enhancing accessibility & analysis.

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

*Model Risk Management Intern*

- Supported model validation through review of conceptual soundness, ongoing monitoring, and outcome analysis.
- Produced clear data visualizations for use in presentations and internal reporting.

## VOLUNTEER EXPERIENCE

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**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

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

- Produced an online GIS dashboard to visualize vegetation growth and track invasive species spread.

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

- Designed a static map and brochure illustrating historical geographic changes of the Charles River amid Boston's urban development, with an emphasis on sustainability.

## SKILLS

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*Technical:* ArcGIS, QGIS, Leaflet, FME, Adobe Illustrator, Microsoft Office (including Excel)

*Computer Languages:* HTML/CSS/JavaScript, SQL, Python, R