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. Skilled in ArcGIS and dashboard design for transportation, infrastructure, and public service. Proven ability to digitize utility records, maintain GIS databases, and collaborate across teams. Committed to spatial data integrity, map production, and learning AutoCAD for infrastructure drafting.

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 Technician

- Designed and deployed an ArcGIS dashboard used by staff to access location-specific reentry resources.
- Integrated spatial filtering, proximity analysis, and user guidance to improve service delivery for clients.
- Collaborated with supervisors to identify data needs, expand content, and train staff on dashboard use.
- Maintained a GIS database of 300+ resources and provided ongoing technical support across departments.

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

- Digitized speed regulation records from paper format into a centralized GIS layer.
- Ensured spatial accuracy and data integrity through standardized workflows and quality control checks.

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

- Supported model validation and created Excel-based data visualizations for internal risk reporting.

PROJECTS & VOLUNTEER WORK

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

- Contributed 80+ hours to invasive species management and urban park restoration.
- Monitored vegetation and recorded field data for ecological planning in Hell's Half Acre.

Vegetation Monitoring Data Dashboard   Oct 2024 – Dec 2024

- Developed an ArcGIS Online dashboard to support the CRC's restoration efforts in Hell's Half Acre.
- Mapped vegetation growth and volunteer field data to inform ecological planning and monitoring.
- Used FME to standardize inconsistent data submissions and ensure accuracy across 100+ entries.

SKILLS

GIS Tools: ArcGIS Pro, ArcGIS Online, QGIS, FME, Leaflet, Adobe Illustrator
Programming & Data: Python, R, SQL, HTML/CSS/JavaScript, Excel
Collaboration: Teams, Zoom, SharePoint, Google Workspace
Learning: AutoCAD (open to learning for infrastructure drafting)