Joseph Cangemi

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SUMMARY

GIS Specialist with 2.5 years of experience and graduate training in Geographic Information Science & Technology from UMass Amherst. Skilled in **ArcGIS** for dashboard design, spatial analysis, and data management, with academic exposure to geodatabase concepts and workflow automation. Experienced in applying GIS to support environmental stewardship, transportation planning, and equitable access to public resources. Created user guide documentation and trained staff to enhance dashboard usability and adoption. Familiar with **ADA Title II accessibility principles** and eager to expand expertise in inclusive GIS applications.

EDUCATION

University of Massachusetts Amherst | Amherst, MA   Feb 2023 – Dec 2024
Master of Science in Geography – GIST (Geographic Information Science & Technology) • GPA: 3.9
Select Coursework: Spatial Databases & Data Interoperability; WebGIS; Remote Sensing & Image Interpretation
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
- Launched an ArcGIS Experience Builder dashboard to provide location-specific reentry resources to staff.
- Integrated spatial filtering and proximity analysis to improve service delivery for clients.
- Collaborated with supervisors to identify needs, expand content, train staff, and develop documentation.
- Managed datasets of 500+ resources, ensuring accuracy and consistency across resources.

Massachusetts Department of Transportation | Boston, MA   Jun 2024 – Oct 2024
GIS Intern
- Digitized speed regulation records into GIS, applying standardized workflows and quality control checks.
- Refined data workflows and documentation in collaboration with supervisors, improving consistency.

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.

APPLIED PROJECTS & VOLUNTEER EXPERIENCE

Charles River Conservancy (CRC) | Cambridge, MA   Apr 2023 – Present
C.R.E.W. Steward (Charles River Environmental Watch) *& Vegetation Monitor*
- Contributed 80+ hours to invasive species management and urban park restoration along the Charles River.
- Monitored vegetation and recorded field data to support ecological planning in a local urban wild.
- Built an ArcGIS dashboard from volunteer vegetation data to visualize stewardship outcomes and improve accessibility, standardizing 100+ data submissions in FME for accuracy.

SKILLS

GIS Tools: ArcGIS Online, ArcGIS Pro, FME, QGIS, Leaflet (familiar with Survey123 and Field Maps)
Programming & Data: HTML/CSS/JavaScript, Arcade, Python, SQL, R, Excel
Accessibility & Documentation: Familiar with ADA Title II requirements; user guide creation; staff training