Ramakrishna Raju Gangaraju

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Links: LinkedIn Portfolio Website

SUMMARY

- Seeking full-time / Summer internships / Co-ops positions in GIS / Geospatial Domains.
- GIS professional, Skilled in using advanced GIS tools like ESRI ArcGIS Pro, ArcGIS Desktop, QGIS for advanced spatial analysis, and programming languages like Python, Java, HTML for data analysis, visualization, generating maps. I utilize my leadership, communication, and teamwork skills to collaborate with cross-functional teams to drive successful project outcomes effectively

EDUCATION

University of Wisconsin - Madison | MS in GIS & Cartography *Jan 22 - Dec 23 (CGPA: 3.6/4)*
Courses: *Geographic Information Systems(GIS) & Spatial analysis, Graphic Design Cartography, Advanced Geocomputing Geospatial Big data analytics, Interactive GeoVisualization*
Vignan's University | B.TECH (Major: Mechanical, Minor: IT) *July 15 - June 19(CGPA: 7.4/10)*
Courses: *Automobile Engineering, Manufacturing Process, Operation Research, Database Systems, Operation Systems, Computer Science and Programming*

TECHNICAL SKILLS

GIS Tools: ESRI ArcGIS Pro, ArcGIS Desktop, Google Earth Pro, QGIS, OSM, AutoCAD
- To generate, edit and store data for spatial analysis to understand patterns in order to develop spatial solutions

Software Languages: Python, SQL, HTML, CSS, JavaScript, D3, Leaflet
- Python, to perform and automate advanced spatial processing of large spatial data with python Geo libraries
- To bring End user interactivity on visualized spatial data using HTML, CSS, JavaScript languages

Other technologies: Microsoft Office Suite, Google Suite, Adobe Suite

WORK EXPERIENCE

GIS Project Assistant, Kaufman Lab, UW-Madison *August 22 - Present*
- Conducted analysis of Wisconsin farmers market data and leverage geospatial analysis to support the growth and sustainability of markets by analyzing market data and its geographic locations
- Utilize Python and ArcGIS tools to clean, organize, and analyze over 10 GB of data for spatial processing, ensuring accuracy and reliability in all analyses
- Develop and deliver 15 detailed maps showcasing key demographic trends, public-market connectivity, and market statistics, providing valuable insights into the farmers market landscape
- Prioritize and manage up to 10 tasks per week related to the analysis of data and its geographic locations, resulting in 100% completion of projects on time and to a high standard
- Document all processes and procedures involved in the analysis and mapping of farmers market data, resulting in a 50% reduction in time spent on replicating lab's work and improving overall efficiency.

Information & Document Coordinator, Information School, UW-Madison *May 22 - Aug 22*
- Created and updated content using HTML and CSS to preserve the accuracy and accessibility of information for the UW-Madison iSchool knowledge base website.
- Collaborated closely with cross-functional teams to gather and incorporate feedback, improving the usability and relevance of the KB for students and faculty alike
- Maintained meticulous documentation of all updates and changes, validating that future stakeholders could easily understand and build upon previous work.

Operations Analyst (GIS), Sarala Project Works Pvt Ltd - [Full-time] *INDIA July 19 - Oct 21*
- Managed and organized a comprehensive GIS database of construction projects, comprising vital site data and project plans, to ensure accurate, complete, and easily accessible information.
- Performed spatial analysis such as network analysis, buffer analysis, spatial interpolation analysis, and overlay analysis to support construction planning
- Planned machinery maintenance based on working geographic location conditions for better performance to reduce day-to-day task breakdowns, resulting in a 30% reduction in day-to-day task breakdowns and a 25% improvement in task efficiency

- Generated monthly, quarterly, and YTD reports with Microsoft tools in a tabular and graphical format for decision-making that lead to 25% improvement in project efficiency and a 20% reduction in project costs
- Collaborated with other departments, such as engineering and operations by sustaining 100% accuracy and accessibility of information for project team members for the effective use of GIS data and understanding of Maps precisely.

ACADEMIC PROJECTS

U.S. Army base and it's GDP [Link to Map] *March 22 - May 22*

- Developed a static map using Geospatial analysis of several components of U.S. Army statistics, including army population, GDP consumption Tax effect describing on each state.
- Designed Chernoff face, adhering to cartographic design principles, to humanize the representation of information and utilized design methods to represent four spatial variables at once.
- Analyzed color schemas, shaped Chernoff face attributes, mined data from several online forums, and orchestrated the overburden borne by various states to support the expenses of the U.S. army.

Cardiovascular Health Quake - [Link to Map] *Sep 22 - Oct 22*

- Produced a digital storyboard using engaging bi-variate geospatial analysis between cardiovascular issues based on work-life balance in visual storytelling.
- Cleansed a colossal compilation of cardiovascular diseases and work-life balance, thereby creating a ranking system based on the analysis.
- Utilized technical skills such as data mining, Geospatial analysis, and design methods to complete the project.