PARVATHY MENON

PROFESSIONAL SUMMARY

A results-oriented GIS Analyst with a Master's degree in Hydrogeology and Master's Certificate in GIS, seeks opportunities in the environmental industry. With expertise in ArcGIS Suite, Python, and project management, Parvathy has a proven track record in geospatial data analysis and field support. Experienced in GIS consulting and environmental project, Parvathy is adaptable and eager to take on new challenges wherever they may arise.

ACCOMPLISHMENTS

- Recreated a Detailed Map of Nova Scotia using Advanced Symbology Techniques in ArcGIS Pro.
- Customized SOPARC Field Data Collection Tool into a Smart Form with ArcGIS Field Maps.
- Developed a tool using Model Builder in ArcGIS Pro for Emergency Evacuation Analysis of a Rail Chemical Spill Scenario in London. Subsequently, replicated the analysis using Python code for enhanced efficiency and flexibility.
- Expanded Train Derailment Evacuation Zone Model to Address Critical Public Safety Scenarios, utilizing network analysis to allocate each resident to their designated shelter.
- Analyzed Terrain Elevation Data of North Thames River Area in North East London, Ontario with ArcGIS Pro.
- Conducted Terrain Modeling of the North Thames River Area in North East London, Ontario, utilizing raster data and geoprocessing tools in ArcGIS Pro.
- Applied Image Classification Techniques to Identify Vegetation and Impervious Surfaces in London.
- Refined Supervised Image Classification Results for London Planning District Using ArcGIS Pro.
- Developed a custom Script Tool in ArcGIS Pro to automate channel soundings and map generation for the Catfish Creek Conservation Authority, aiding in dredging operation planning and mitigating flood and erosion risks.
- Conducted change detection analysis in ArcGIS pro using Landsat 8 imagery to assess the impact of the 2021 forest fire in Lillooet and Lytton, British Columbia.
- Utilized Network Analysis of ArcGIS Pro to evaluate fire service coverage in Toronto, generating service area polygons and assessing accessibility of facilities within response times. Hosted the analysis in Argis Story Map.
- Applied landscape ecology principles in Q-GIS to identify and prioritize areas for forest interior rehabilitation in Middlesex County.
- Developed a thematic mapping tool in C# capable of generating proportional symbol/cartogram maps using hexagons, including features for random placemarks and river sinuosity analysis.
- Created an interactive web map experience using SQL Server, C#, HTML, CSS, and JavaScript, leveraging ArcGIS API to showcase crime incidents in Toronto Municipality. Features include a dynamic heatmap of auto theft incidents, comprehensive theft statistics, and data download capabilities.

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WEBSITE,PORTFOLIOS

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SKILL

Arc GIS Pro

Arc GIS Online

Arc GIS StoryMaps

Arc GIS Field Map Designer

Arc GIS Map

Quantum GIS

ArcGIS API

Google Map API

Surfer

Microsoft Office Suite

Remote sensing

GPS Surveying

Cartography Design

AutoCAD

Google Earth Engine

LiDAR Processing

WORK EXPERIENCE

Esri Canada - 1 yr 7 months
GIS Consultant - Contract - Toronto, ON
08/2022 - Current
- Optimized GIS data quality by implementing comprehensive data validation and verification procedures.
- Enhanced GIS data accuracy by conducting extensive geospatial analysis and data validation tasks.
- Improved data accuracy by performing regular quality control checks on GIS databases.

EnviroDesign Associates, INC. – 1 yr 6 months
Environmental Scientist - Delray Beach, USA
03/2018 - 09/2019
- Completed over 50 environmental site assessments including historical data and online database research on residential and commercial properties throughout the State of Florida and prepared reports.
- Introduced the use of GIS software for mapping the location project Site and nearby potential environmental threats
- Georeferenced maps from archives to locate potential source of groundwater and soil contamination
- Used GIS software to map soil and groundwater sampling location, plot groundwater contour map to predict the direction of flow of contaminant.
- Presented complex GIS information in easy-to-understand formats, facilitating communication between technical and non-technical stakeholders.
- Utilized open-source GIS solutions when appropriate to reduce overall project costs without sacrificing quality or functionality.
- Created clear and concise documentation for GIS procedures and workflows, promoting consistency among team members.

Clemson University - 0 years 4 months
Graduate Teaching Assistant - Clemson, USA
08/2017 - 12/2017

- Delivered a range of teaching and assessment including tutorials directed towards the delivery of subject at ungraduated level, in department of earth sciences at Clemson university
- Guided students in their field work including characterization of aquifer.

Ashoka Trust For Research In Ecology And The Environment - 2 years 9 months
GIS Associate - India
10/2013 - 07/2016

- Worked on an International Development Research Centre (IDRC) funded project with prime focus on understanding adaptation to climate change in urbanizing watershed
- Trained a team of 20 individuals on the usage of QGIS(GIS Software) for mapping and GPS applications.
- Managed a team of 4 to conduct a well census for an area of 24 sq. km and have provided analytical support with minimal supervision and drew meaningful conclusion and prepared a technical report for the same.
- Contributed to the successful completion of multiple high-profile projects through diligent attention to detail and excellent problem-solving skills.
- During my 30 month association with ATREE my duties included: Analyzed meteorological data, Analyzed lithological data, Prepared GIS maps of ground and surface water features, Monitored ground water, Monitored surface water, Conducted a well census and analyzed the data, Prepared predictive settlement map using Idrisi Terrset software.
- Participated in field data collection efforts, utilizing GPS devices and mobile applications to ensure accurate location information was captured.

EDUCATION

Master's certificate, Geographic Information Science and Cartography, Expected in 05/2024
Fanshawe College

- Graduation with Dean's Honor Roll, [Fall Semester,2023]
- 4.1 GPA

Master of Science, Hydrogeology, 01/2018
Clemson University - Clemson, South Carolina

- Graduation with Distinction
- 3.66 GPA

Engineer's Degree, Agriculture engineering, 01/2013
Kerala Agricultural University - India