

SENTHIL THYAGARAJAN

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Objective: Looking for a position in Data Science and Visualization

SKILLS

Languages	R, Python, JavaScript, SQL
Data Analysis	Alteryx, Tableau, Pentaho Data Integration, MS Excel
Libraries	Pandas, Numpy, Scikit-learn, D3js, Dplyr, Matplotlib, Ggplot2, Leaflet, Fusion charts, Chartjs, Plotly, Rvest
Web Design	HTML, CSS, Bootstrap, Angular Material Design
GIS Tools	ArcGIS Suite, QGIS, Map Server, ERDAS Imagine, Google Earth, MapInfo, Maptitude

ANALYTICS PROJECTS

www.stencilled.me

- **Where do people eat in Austin?** Scrapped data from Foursquare API for all places falling under the food & restaurant category using R, used D3.js to create bubble chart based on the inputs, check-ins and ratings.
- **Mapping breweries in the US:** Mapping breweries across US using R to scrape and geocode data and leaflet to map them.
- **Visualizing Airbnb listings:** Used R and Python to analyze how prices vary for rental listings in NY based on geography, listing type and amenities.

PROFESSIONAL EXPERIENCE

Senior GIS Developer (Data Analytics and Visualization), Tango Analytics – Irving, TX **Jul 2013 - Present**

- Developed dashboards using D3.js, Python and R for visualizing demographic variables within store trade areas assisting the clients in understanding the underlying important demographics and target marketing.
- Developed tools for web mapping application to perform spatial analysis allowing retailers to understand the spatial relationship between stores, their customers, competitors.
- Designed and developed UI for the mapping application to make it responsive across various devices allowing end users to use the application on site to run real time reports and understand factors in deciding potential new sites.
- Implemented PL/SQL procedures for generating demographic reports, trade areas, sales forecast model and geospatial editing functionalities.
- Utilized Alteryx for building GIS data pipelines to automate demographic data update process.

Senior Developer, High Mark Credit Information Services Ltd – Mumbai, India **Feb 2012 - Aug 2012**

- Set up and mentored a GIS team for R&D to implement zip code proximity mapping workflow using QGIS to improve the accuracy and usability of Indian addresses for the purpose of identity resolution.

Senior GIS Analyst, Cybertech Systems and Software, Ltd – Mumbai, India **Jun 2010 - Feb 2012**

- Implemented desktop and web based GIS solutions for clients using ESRI suite of products.

GIS Specialist, Environmental Management Centre – Mumbai, India **Sep 2008 - May 2010**

- Developed a GIS Web Based Project Information Management system for an Infrastructure Development firm with ArcGIS Server.
- Converted CAD data to GIS data, geodatabase creation from spatial and non-spatial data, spatial and attribute editing, digitizing and implement a fully functional ArcGIS Server setup.

GIS Engineer, ESRI India Ltd – Mumbai, India **Jan 2007 - Sep 2008**

- Trained key clients to ensure understanding for ArcGIS Desktop and ArcGIS Server, improved efficiency for ATMs by implementing a web based GIS application and monitoring their status using ArcGIS Server for banking institutions.

EDUCATION

University of Texas, Dallas
Symbiosis, India
Anna University, India

M.S – Geospatial Information Science
M.S – Geoinformatics
B.S – Electronics and Instrumentation Engineering