SENTHIL THYAGARAJAN
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SUMMARY

Geographical Information Systems professional with 7 years of experience in
- Developing tools for geospatial analysis using JavaScript.
- Designing and implementing UI for mapping applications using HTML and CSS.
- Building models to automate geospatial workflows.

TECHNICAL SKILLS

Programming - R, D3JS, JavaScript, Python, Oracle Map Viewer API, PL/SQL
Data Analysis - Data cleaning and Exploration, Data Scrapping using API's and webpages, Feature Extraction, Developing predictive models, Geocoding, Data visualization
Data Analysis Tools - Tableau, Alteryx, MS Excel, Power BI
Web Design - HTML, CSS, Bootstrap
GIS Tools - ArcGIS Desktop (9.x/10.x), ArcGIS Server (9.x/10.x), ArcGIS Business Analyst (10.x), ArcIMS, QGIS, Map Server, ERDAS Imagine, Google Earth, MapInfo, Maptitude

EDUCATION

UNIVERSITY OF TEXAS, DALLAS – May 2014
Master of Science – Geospatial Information Science

SYMBIOSIS INSTITUTE OF GEOINFORMATICS, Pune, India - May 2007
Post Graduate Diploma in Geoinformatics

ANNA UNIVERSITY, Chennai, India – May 2005
Bachelor of Engineering - Electronics and Instrumentation Engineering

PROFESSIONAL EXPERIENCE

GIS Developer , Tango Analytics – Irving, TX
 – July 2014 - Present
- Developed tools for web based mapping application to perform analysis such as viewing and editing geometries, generate spider maps and customer spotting.
- Built UI for a web application to make it responsive across various platforms.
- Configured geospatial mapping applications for clients which helped to view their existing stores, potential sites for new stores and their market competitors.
- Implemented PL/SQL procedures for generating demographic reports, trade areas, sales forecast model and geospatial editing functionalities.
- Utilized Alteryx for building models, GIS data conversion, data manipulation and geocoding.
- Provided support for bug fixes or enhancements in existing web mapping applications.
- Created GIS dataset for retail competitor location from different sources.

Senior Developer, High Mark Credit Information Services Ltd – Mumbai, India
- Feb 2012 - Aug 2012
- Designed and implemented zip code proximity mapping workflow using QGIS to improve the accuracy and usability of Indian addresses for the purpose of identity resolution.
- Delivered projects combining underlying bank data with GIS for premier banking clients.
- Set up and mentored a GIS team for R&D.

Senior GIS Analyst, Cybertech Systems and Software, Ltd – Mumbai, India
– Jun 2010 - Feb 2012
- Provided technical support for ESRI Suite of products.
- Created GIS resources with ArcGIS Desktop that can be hosted as a GIS Service in ArcGIS Server.
- Implemented desktop and web based GIS solutions for ESRI's clients.

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.
- Created maps for a pollution control board for the polluted stretches of a river across a state to devise the environmental status report.

GIS Engineer, ESRI India Ltd – Mumbai, India
– Jan 2007 - Sep 2008
- Trained key clients to ensure understanding for ArcGIS Desktop and ArcGIS Server.
- Represented ESRI India as ArcGIS Server product specialist at ESRI India User conference.
- Implemented a web based GIS application for a banking and financial institution using ArcGIS Server.
- Initiated the pilot projects for the Maharashtra pollution control board for preparing the Zoning Atlas.

ANALYTICS PROJECTS
- **NFL Season 2016-2017:** Mapped how the teams fared in NFL for season 2016-2017 by creating spider map on their opponents and their wins using D3.js.
- **Where do people eat in Austin?** Scrapped data from Foursquare API for all places falling under the food & restaurant category using R. After cleaning the scrapped data in R, used D3.js to create bubble chart based on the inputs, check-ins and ratings.
- **Top 250 Beers in 2016:** Scrapped data using R from Beer Advocate website to get top 250 beers in 2016, used ggmap library to geocode and then plotted on a map by using the leaflet library.

GIS PROJECTS
- Mapped Energy Consumption for University of Texas at Dallas and represented it using ArcGIS Server and Flex Viewer.
- Developed a tool for ArcGIS Desktop using python to convert all the latitude longitude from the multiple sheets in an excel file to a single point feature class.
- Build a 3 D model for the University of Texas at Dallas campus using Arc Scene along with the floor wise information for all the buildings inside the campus.