

# Senthil Thyagarajan

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## SUMMARY

Geographic Information Systems professional with experience in developing tools and writing PL/SQL procedures for performing geographic analysis in web based GIS applications. Expertise includes building models to automate geospatial workflows, web-based mapping application deployment.

## TECHNICAL SKILLS

**GIS:** 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  
**Database:** Oracle 11g  
**Programming:** JavaScript, D3.js, Oracle Map Viewer API, Python, PL/SQL  
**Data Analysis:** Alteryx, R, MS Excel with Data Analysis  
**Web Design:** HTML, CSS, Bootstrap

## EDUCATION

**University of Texas, Dallas, TX - 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**  
*Bachelors of Engineering in Electronics and Instrumentation Engineering*

## PROFESSIONAL EXPERIENCE

**Tango Analytics**  
**Irving, TX**

**GIS Developer**  
**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 an UI for the existing web application to be 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.

**High Mark Credit Information Services Ltd**  
**Mumbai, India**

**Senior Developer**  
**February 2012 – August 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 work order based projects combining underlying bank data with GIS for premier banking clients.
- Assisted in setting up and mentored a GIS team for R&D.

**Cybertech Systems and Software, Ltd**  
**Mumbai, India**

**Senior GIS Analyst**  
**June 2010 - February 2012**

- Provided technical support for ESRI Suite of products ( ArcGIS Desktop, ArcGIS Server and ArcIMS).
- Created GIS resources with ArcGIS Desktop that can be hosted as a GIS Service in ArcGIS Server.
- Involved in troubleshooting and resolving complex technical issues and the further implementation of desktop and web based GIS solutions for ESRI's client.

**Environmental Management Centre**  
**Mumbai, India**

**GIS Specialist**  
**September 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.

**ESRI India Ltd**  
**Mumbai, India**

**GIS Engineer**  
**January 2007 - September 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 2008.
- Implemented a web based GIS application for banking and financial institution using ArcGIS Server.
- Initiated the pilot projects for the Maharashtra pollution control board for preparing the Zoning Atlas.

### **ADDITIONAL CREDENTIALS**

#### **ACADEMIC PROJECTS**

- Mapping Energy Consumption for University of Texas Dallas and representing 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 campus using Arc Scene along with the floor wise information for all the buildings inside the campus.

#### **LEADERSHIP**

- Vice President - GIS Student Organization at University of Texas, Dallas.
- Placement coordinator at Symbiosis Institute of Geoinformatics, Pune

#### **ACHIEVEMENTS**

- Student assistant for the ESRI International User Conference at San Diego, USA 2013.