Meghan S Kulkarni

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SUMMARY

Full Stack GIS Software Developer with an utmost passion for mapping and its applications. Demonstrated analytical/problem solving skills pertinent to GIS in the field of Public Administration.

PROFESSIONAL EXPERIENCE

Software Developer (GIS) - *CentralSquare Technologies*   ***Sept 2019 – Present***
Technologies Used: ASP.NET MVC, C#.NET, VB.NET, ArcGIS API for JavaScript, Bing Maps

- Developed token-based authentication capability to the Community Development application for integrating client's map service secured with username and password.
- Served as a Subject Matter Expert on matters related to geospatial computing to core dev team and clients
- Analyze, reproduce, debug/resolve defects (if found) in the application reported by production support team or GIS Specialist
- Conduct requirements analysis for enhancements to the application

GIS Specialist - *CentralSquare Technologies*   ***May 2018 – Aug 2019***
Technologies Used: Python 2.7, ArcMap 10.5.1, ArcGIS Server, ArcGIS Online, ArcGIS REST API, ArcGIS API for JavaScript

- Developed custom python scripts to import client's GIS dataset (Land Parcels, Address Points, etc.) from Enterprise Geodatabase to Central Square's Community Development Application
- Developed custom python scripts to extract GIS dataset from a secured REST endpoint by dynamically generating token and appending it to http POST request
- Performed spatial join and merged with original GIS dataset to align with Community Development's database schema
- Configured GIS viewer in Community Development to the REST endpoint with help XML config file
- Counseled clients to setup network topology, map sharing, etc. with recommended practices accepted by the industry

Public Works Intern - *Town of Flower Mound, Texas*   **Oct 2017 – May 2018**
Tools Used: ArcMap 10.4.1, ArcGIS Online, Collector for ArcGIS

- Assisted Flower Mound's Public Works department in creating/editing utility assets such as water meters, sanitary sewer lines by referencing AutoCAD format; Georeferencing back on town's GIS database schema
- Assisted inspection team to solve GPS accuracy issue by integrating external GNSS Receiver with Collector for ArcGIS

Network Engineering Intern - *Sprint Nextel Corporation*   **May 2017 - Aug 2017**
Tools Used: ArcMap 10.5.1, Alteryx Designer 11.3, Python 3.4

- Used Alteryx tools to transform data to and from TAB to ESRI Shapefile format for creating radio frequency simulations
- Extensively used Projection and Transformation toolbox of ArcMap for Georeferencing Raster and vector datasets
- Moved MagicBox to correct location inside building polygon based on 360° Azimuth in association with ESRI's Near tool

Software Engineer - *MasterCard Technologies Pvt. Ltd. Pune, India*   **Feb 2014 - Jul 2016**
*Technologies Used: Pro*C, PL/SQL, Advanced Java, Shell Scripting*

- Provided detailed technical analysis and code fix (if required) on forex/travel cards involving facilitation of multi-currency, and multi-wallet payments for more than 15 clients involving PL/SQL at back-end and Java-based web application at front-end
- Built UAT environment on UNIX platform from ground up for QA Testing
- Authored and documented Standard Operating Procedures for prepaid, debit and merchant applications

CORE COMPETENCIES

ArcGIS Enterprise, ArcGIS Online, Web GIS, Python, RESTful Web Services, ASP.NET MVC, Azure DevOps

EDUCATION

Master of Science - Geospatial Information Sciences   **May 2018**
The University of Texas at Dallas

Bachelor of Engineering - Information Technology   **May 2013**
University of Pune

SKILLS

- GIS Software's   : ArcGIS 10.x, ArcGIS Pro 1.3.x, QGIS, ArcGIS Online, ArcGIS Server, Portal for ArcGIS, Collector for ArcGIS, Survey123 for ArcGIS, Web AppBuilder for ArcGIS
- Programming Languages : C#.Net, Python, ArcGIS API for Python, VB.Net, ArcObjects, ArcGIS API for JavaScript
- Enterprise Geodatabase : ArcSDE (T-SQL)
- Web Technologies   : HTML5, CSS, XML, ASP.NET MVC
- IDE Tools   : Microsoft Visual Studio, Visual Studio Code, Git

PROJECTS

Flood zone mapping (for housing only) in Miami, FL Metroplex   **Jan 2017 - Apr 2017**
Technologies Used: VB.NET, ArcObjects, ArcMap 10.4.1

- Developed ArcMap Add-In buttons in Microsoft Visual Studio environment for different tasks such as creating dynamic buffer, spatial join with housing layer
- Process optimized by pulling data dynamically from Web Map Service and running spatial join to calculate fewer risk areas

Finding optimum location for a new call center   **Jan 2017 - Apr 2017**
Technologies Used: ArcMap 10.4.1, Tableau 10.2

- Collected mean, median living expenses data, # graduates from probable locations in relevant field for different metroplexes in the USA from Bureau of Labor Statistics
- Calculated cost-benefit analysis vs present call-center location for probable locations and shortlisted Raleigh, NC as top-ranked location for new call center