

SIJIA ZHANG

Sunnyvale, CA, 94089 | 608-338-2280 | szhang249@gmail.com | [LinkedIn](#)

QUALIFICATIONS

GIS Analyst with extensive experience in geodatabase design and management, spatial data analysis, and model building. Skilled in providing professional high-quality map solutions in multiple formats, including static maps, interactive web maps and mobile maps. Experience with development of location-based application with APIs such as Google Maps APIs, ArcGIS Portal and Mapbox.

TECHNICAL SKILLS

Programming Languages: Java, Python, Swift, SQL, JavaScript, HTML/CSS, C

Libraries: Google Maps APIs, ArcGIS APIs, Google Firebase, Mapbox, D3, Open Street map, CartoDB

PROFESSIONAL EXPERIENCE

GIS Consultant LTE, City of Santa Clara, Santa Clara, CA **6/2017 - 9/2017**

- Review property deeds and related documents to draft and correct property boundaries
- Utilize COGO editing tools to create and update the city easement map
- Collect spatial information using GPS Trimble and perform data conversion and integration
- Apply python scripts and SQL to access project data and improve workflows

GIS Specialist, University of Wisconsin, Madison, WI **8/2014 - 5/2017**

- Digitize landcover maps, design maintain and manage geodatabase
- Create interactive maps for faster access of spatial information
- Build automation toolbox and decrease data processing time by 25%
- Develop standard QA/QC procedures and train new employees
- Manage and design project framework and generate monthly progress report

Assistant Site Planner, UW-Extension, Jefferson, WI **2/2014 - 12/2014**

- Draft County Fair Park Master Plan Update, reviewed and approved by the park committee
- Conduct site assessment and perform GIS spatial analysis to enable site selection
- Architect exposition center with virtual 3D model to successfully accommodate 2000 more visitors

Project Assistant, Vandewalle & Associates Inc. Madison, WI **1/2013 - 12/2013**

- Provide flood mitigation strategies to city stakeholders, decreasing the flood risk by 20%
- Investigate local watershed condition and collect hydrologic data
- Build GIS hydrologic model, create the watershed delineation and perform flow analysis
- Predict and compare scenarios under different green infrastructure best management practices

EDUCATION

UNIVERSITY OF WISCONSIN - MADISON, Madison, WI

M.S., Urban and Regional Planning (concentration: GIS Application), 12/2014

Capstone Certification in Computer Science, 6/2017

CENTRAL CHINA NORMAL UNIVERSITY, Wuhan, China

B.S., Management of Urban and Rural Planning, 6/2012