

LIANG-HUAN (LEO) CHIN

SOFTWARE ENGINEER

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Highly motivated software engineer with strong background in **Python development and testing**. Capable of translating abstract concepts and ideas into software architecture implementations. Open for re-location and working in different countries.

Skills

Python

Detailed knowledge of data analysis/ processing using Python and related packages (**Numpy, Scipy, NetCDF4**)

Agile Methodologies

In-depth understanding of **Software Development Life Cycle** using **Agile/Scrum processes**

Web Design

Practical experience of online map using **Javascript (jQuery and Ajax), PHP and MySQL**

Experience

Product Engineer

Sept 2013 - present

Geoprocessing Department, Software Development, Esri

- Design and development of tools focusing on Spatial Statistics written primarily in Python (**Numpy, NetCDF4, Arcpy**)
- Quality assessment of software tools including performance, functionality, and sanity/ unit tests using Python (**heapy and Psutil**)
- Python tool maintenance and debugging on multiple platforms (**Windows** and **RedHat-Linux**)

Project: Space Time Pattern Mining Toolbox, Python

- Designing two new analytics tools for multi-dimensional data
- Long term project and collaboration with teams from other divisions as well as academia

Summer Intern

June - Aug 2013

Geoprocessing Department, Software Development, Esri

Project: Space Time Point Aggregation API, Python (Numpy and NetCDF4)

Intern

Jan - May 2013

Service Planning Department, Niagara Frontier Transportation Authority

Project: The Rie for Roswell Cancer Cures Interactive Map, Javascript (Google Map API)

Research Assistant

July 2007 - Feb 2010

Spatial Information Research Center, National Taiwan University

Project: Interactive Tour & Navigation Website for Bazaars, PHP, MySQL, and Javascript (Jquery)

Satellite Image Color Correcting API, **Matlab**

Education

University at Buffalo, State University of New York

Sept 2013

Major: Master of Arts in Geography — **Concentration: GIS**

Master Project: A Flexible Shaped Space-Time Cluster Analysis for Influenza Infection, Python

- Analyzed Space-Time health data to predict Influenza Infection
- Designed 8 applets through Python to fulfill several statistical methods

National Taiwan University, Taipei, Taiwan

Feb 2010

Major: Bachelor of Science in Geography

Bachelor Project: Applying Spatial Information Extraction Technique in a WebGIS Carpooling System

- Designed and developed a web based searching and matching platform
- Implemented by **PHP** and **MySQL** combined with **Google Map API** and Word-break API