

Technical Skills

Languages: Python, JavaScript, Java, HTML, CSS, Shell, C/C++.

Frameworks/Libraries: jQuery, React.js, Angular.js, Bootstrap, Django, NodeJS.

Other: Git, Grunt/Gulp, MongoDB, PostgreSQL, Selenium.

Project Experience

Swiss System Tournament Database - [Tournament Database](#)

May 2015 - Jun 2015

- Configure vagrant virtual machine to create stand-alone environment
- Create player, match, standings tables and views with PostgreSQL
- Write python script to query database with psycopg2 module

Auto Torrent Crawler - [Auto Torrent Crawler](#)

Sep 2014 - Nov 2014

- Automatic torrent crawler built with scrapy, curl and btc (python, shell)
- User can pass in keyword and category to crawl torrents on kickass.io
- Crawler would automatically retrieve torrent file and start uTorrent to download the resources

Personal Websites - [xiangli.me](#) - [github pages](#)

Apr 2014 - Present

- Personal website built with bootstrap, responsive design hosted on bluehost
- Github pages static website built with jekyll, jekyllbootstrap, markdown configuration with pygments
- Track website traffic with google analytics, optimize website for mobile users

Website Optimization(PageSpeed Best Practices)

Jan 2014 - May 2014

- Optimize critical rendering path of existing website and use CDN for public libraries like jQuery
- Optimize images according to responsive design for different devices
- Minify css, javascript, html files to improve page loading speed

Wireless Oxygenation Monitor System - [Wireless Embedded Project](#)

Jan 2013 - May 2013

- Built embedded system consists of optical sensor, mbed, bluetooth module and android phone to detect patient's oxygenation level.
- Processed raw data to get status of patient and gave advice for doctor and patient. (C, Java)
- Developed signal processing C code on mbed. Created test filter and plotting code in Matlab. (Matlab)

Android Bluetooth Realtime Plotting App - [Android Bluetooth App](#)

Mar 2013 - Jun 2013

- Created Android app for realtime display and control. Designed user interface and app functions with Java
- Reduced time for repetitive calculation, giving engineers more time to focus on problem-solving.

Work Experience

Silvus Technologies - Software Engineer

Los Angeles, CA | May 2014 - Present

- Reduce page loading time by 80% by replacing cgi script with pure HTML and Javascript(React.js)
- Move cgi form submission to AJAX technology by implementing JSONrpc client and server
- Implement realtime position updating features with open resources(openstreet map, google map api, openlayers)
- Remove web page memory leak by removing uncollected Javascript objects(reduced CPU usage by 70%)
- Built Auto web test framework for web interface with selenium(Selenium webdriver)
- Create automatic tests for wifi connection and serial connection(iperf, paramiko, pyserial)

Education

University of California, Los Angeles - Master of Science in Electrical Engineering

Sep 2012 - Apr 2014

Zhejiang University - Bachelor in Electrical Engineering.

Sep 2008 - Jun 2012