

# Geoffrey Liu

Web developer, student at University of Washington

## Contact info

*Contact details  
available upon request*

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## Programming

Java 7  
JavaScript  
jQuery  
PHP  
HTML5/CSS3  
Ruby on Rails  
Python

## Coursework

Software design  
HW/SW interface  
Data structures  
Linux tools  
Java programming  
Web programming  
Music theory

## Languages

English  
Chinese  
French

## Interests

UI/UX design  
Teaching  
Blogging  
Classical music

## Education

2012 TO 2016 **B.S. Computer Science; B.A. Music**  
*University OF Washington, Seattle*

Undergraduate

- Direct admission into Computer Science, 2012
- Dean's List candidate, 2012 - 2014
- 3.7 overall GPA
- 2016 expected graduation

## Work experience

Jan-Mar 2015 **Teaching Assistant for CSE 120**

Employment

*University OF Washington Computer Science AND Engineering*

Grade homework and tests, maintain office hours, staff lab sessions for Principles of Computer Science class.

Jul-Sep 2014 **Programming Intern**  
*Seattle Publishing*

Internship

Redesigned the Ruby on Rails company website. Increased SVG and layout compatibility with IE8. Implemented Bootstrap components for better UX on small screens. Migrated another site from Rails 2.9 to 4, updating models, database migrations, and integration tests.

*Previously: Webmaster, ASUW • Tutor, self-employed*

## Projects

### Periodic table explorer

Allows tabular comparison of multiple elements. Element data stored in XML files; loaded with AJAX. Used jQuery to preprocess table layout.

### Twelve-tone analyzer

*(In progress)*. An analyzer for musical set theory, written in Java. Modular class and enum design for representing and manipulating tone rows.

### Reich weather

A rain forecast app based off of Steve Reich's hit *It's Gonna Rain*. Uses PHP wrapper to call Forecast.IO API. AJAX to retrieve processed data and jQuery to load to display.

### Word frequency analyzer

Used various data structures to analyze text files. Implemented hash table, AVL tree, and stack for data comparison. Wrote and ran JUnit performance tests.

### BicyclePaper.com

Performed migration from Rails 2.9 to 4. Updated models, database migration schema, and integration tests. Harnessed asset pipeline for content delivery.

### ASUW Jobs Site

Built in three weeks from scratch. Bootstrap on front-end for responsive design and user-friendly forms. Custom sidebar navigation with JavaScript/CSS3. Used PDO library for MySQL CRUD.