

# CHENG, WEI-TING

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## Education:

University of Southern California Los Angeles, CA  
05/2015  
**Master's Degree in Computer Science (GPA: 3.66/4.0)**

National Chung Hsing University Taichung, Taiwan  
06/2012  
**Bachelor's Degree in Computer Science and Engineering**

## Technical Skill:

- **Language:** C/C++, Java, SQL, XML, HTML5, PHP, JavaScript, OpenGL, JDBC, SPARQL, RDF, AngularJS, Swing, UML
- **Application:** Oracle database, SAP1, TortoiseSVN, CodeIgniter, JPM, Karma, Google Refine, Sesame, Git, Bugzilla, Eclipse, Visual Studio

## Work Experience:

FitnessMassive Irvine, CA  
05/2014-08/2014  
**Software Engineer Intern**

- Worked on a platform which can allow users search for private sports and fitness coach with specified condition.
- Implemented whole system using CodeIgnitor (MVC) framework to increase readability, performance and future maintainability and make general and detail lifecycle plan using Incremental Spiral model.
- Developed the search function and increase the convenience for users based on their region and integrated with Paypal API so that user can book and pay through our platform.
- Implemented mailing system, registration system, and personal page system.

## Projects Experience:

**Web retriever RDF triple mapper (Information Integration)** 09/2014-01/2015

- Crawling web information and use REST API to translate those information into RDF and store in the triple database. (<https://github.com/waitingduck/Web-retriever-rdf-triple-mapper>)
- Using SPARQL to query the needed information. The whole application using Java, and API from OpenCalais.

**USC Spatial database (Database system)** 09/2013-12/2012

- Developed Java application that can query database and show the data on the map based on user's action. ( <https://www.youtube.com/watch?v=TVgtLSZqgZA> )
- Use JDBC to connect and query data from Oracle spatial database based on either click or draw a range on the map, and then show the data on the map using Swing(UI).

**JEP online platform (Web technology)** 09/2013-05/2014

- Developed search functions for different privilege to increase security and output result to different format to increase the performance of their work using PHP, JavaScript, jQuery, MySQL and AJAX. ( <https://www.youtube.com/watch?v=ECXA2L-8iIA> )
- Served as Life cycle planner in team of 7 to separate whole system and assign tasks to team members and make detailed plans to ensure the whole project finished on time with certain quality using COCOMO model, Agile method, and Incremental Commitment Spiral Model.

**An Improved Watershed Algorithm by Bilateral Filter (Image processing)** 09/2010-01/2012

- Implemented Watershed Algorithm for image segmentation using C++.
- Implemented Bilateral Filter and Multi-resolution Bilateral Filter for De-noising using C++.
- Increased 10% accuracy of image segmentation by combine above methods.

Github: <https://github.com/waitingduck>  
LinkedIn: <http://www.linkedin.com/pub/wei-ting-cheng/8b/1b8/178/>  
Personal Website: <http://waitingduck.com/Myself/>