**Resume of Wei Chen**



★ **Contact Information**

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**Github**: https://github.com/henrychen222/

**Projects**: https://github.com/henrychen222?tab=stars

**Papers**: https://weichen.neocities.org/paper/paper.html

★ **Education**

► 09/2012-07/2016, School of Information Engineering, Nanjing Xiaozhuang University,

B.S of Computer Science (Software Engineering), GPA:2.92

[**Degree**](https://github.com/henrychen222/Personal-Resume-/blob/master/Bachelor%20Degree/Degree%20translation.pdf) **and** [**Diploma**](https://github.com/henrychen222/Personal-Resume-/blob/master/Bachelor%20Degree/Diploma%20translation.pdf) [**Official Transcript**](https://github.com/henrychen222/Personal-Resume-/blob/master/Transcript/IMG_2655.JPG):

► 08/2016 –12/2017, Department of Computer Science, University of North Dakota,

M.S of Computer Science (Transferred to SIT in 01/2018), GPA: 3.22

[**Official Transcript**](https://github.com/henrychen222/Personal-Resume-/blob/master/Transcript/UND%20Official%20Transcript.pdf):

► 01/2018–01/2019, Department of Computer Science, Stevens Institute of Technology,

M.S of Computer Science, GPA: 3.9

**Degree and Diploma**: (waiting until 01/31/2019)

**Official Transcript**: (waiting until 01/31/2019)

★ **Skills with personal evaluations (\* Top Skills with bold and italic)**

**Programming Languages**: ***Java*** (2 years), ***Nodejs*** (0.5 year), ***Linux Shell*** (3 years)，C (1.5 year), ***Python*** (0.5 year), ***PHP*** (0.5 year), Perl (0.5 year), TypeScript (0.5 year), C++ (0.5 year), C# (0.5 year), ***R*** (0.5 year)

**Database**：***MySQL*** (2 year), ***Oracle*** (1 year), ***MongoDB*** (0.5 year), Redis (0.5 year), SQLite (1 year)

**Mobile**：***Android*** (2 year), Gradle (2 year), Kotlin(entry-level), React Native(entry-level), IOS(entry-level), Swift(entry-level), Objective-C(entry-level), Ionic(entry-level), Cordova(entry-level), PhoneGap(entry-level)

**Front-end**：***JavaScript*** (2 years), ***HTML*** (2 years), ***CSS*** (2 years)，***Bootstrap*** (1 year), HTML5 (0.5 year), jQuery (0.5 year), Ajax (0.5 year)，***React***/Redux(0.5 year), Angular (entry-level), Gulp (entry-level), SASS (entry-level), Socket.io (entry-level), ***handlebar***(0.5 year)

**Server**：***Apache*** (2 years), Nginx(entry-level)

**Framework**：***Express*** (0.5 year), Laravel (entry-level), ***Django***/Flask (entry-level)

**System**：Mac(0.5 year), Linux(2 years), Windows(6 years)

**IDE/Text editor**: ***Eclipse*** (2 years), ***Android Studio*** (2 years), Visual Studio (1 years), SublimeText (1.5 years), ***Visual Studio Code*** (1 year), ***PyCharm*** (0.5 year)，PhpStorm (entry-level), Xcode (entry-level), ***IntelliJ***(0.5 year)

**Python Technology**: ***NLTK*** (0.5 year), ***Pandas*** (0.5 year), ***TensorFlow*** (0.5 year), ***scikit-learn*** (0.5 year), ***Seaborn*** (0.5 year), ***NumPy*** (0.5 year)

**Java Technology**: Tomcat (0.5 year), ***Spring*** (0.5 year), JSP/Servlets (1 year), JDBC (0.5 year), JavaFX (0.5 year), Swing (0.5 year)

**Big Data**: Hadoop (0.5 year), HDFS (0.5 year), MapReduce (entry-level), Hbase (entry-level)，Zookeeper (entry-level), Spark (entry-level)

★ **Professional Experience**

► *Summary*

***Full stack development (1.5 year)***

***with Java (half year), PHP (half year), Nodejs (half year), Python(self-study)***

***Front-end development (0.5 year): React (0.5 year), Angular(self-study)***

***Mobile development (1 year) with Android.***

**(*Bachelor period Intern*)**

►*Nanjing Keyi Communication Technology co., LTD 07/01/2013-08/29/2013*

Java Assistant Intern

•In July, learned Java basic language, as well as compiling some simple programs (sequencing), got acquainted with three basic frameworks (Struts, Hibernate, Spring), and assisting the company with rear service

•In August, assisted the developer with Java Web development, which includes specific processes of login, registering, and blacklisting non-performing assets system of rural commercial bank. Writing kinds of function pages in the front end of JSP, as well as implanting JavaScript, conveying Java code to the backstage supporter by service, implementing the practical methods

►*Jiangsu Suwei Microsoft Technology Co., Ltd. 07/01/2015-10/30/2015*

Android Assistant Intern (**Project Code:** [**1**](https://github.com/henrychen222/xiaoshixun071315_Android)[**2**](https://github.com/henrychen222/dashixun080315_Android)[**3**](https://github.com/henrychen222/weibotest08_312_Android))

•Primitively got acquainted with Android development environment（ADT + Android SDK Plug-in , and configuration of JDK environment variable, setting up development platform, with Linear Layout and Relative Layout completing high simulation manufacture of static interface like QQ dynamic page, and Alipay page. Meanwhile, functions of calling, texting, music player and calculation have been done on client-side.

•In August, under the guidance of teachers, got acquainted with most controls, and passing values between pages by binding adapter. At the same time, studying Android including: time disposal, animation production, data storage, service, and Socket network programming.

•Independently completed microblog management systemin July and August, well performed in main functions, such as: lead in pages, login registering, password modifying, microblogging, obtaining messages list and followers list, checking others’ personal information and commending.

►*Nanjing Xudan Information Technology Co., Ltd. 03/08/2016—04/25/2016* Java + Hadoop Assistant Intern ([**Part of Project Code**](https://github.com/henrychen222/JavaEE-Project))

•Research and develop independently mini type oa system（office automation system， including user login，registering account，inquiring user information，modifying and deleting user information and so on.

•Develop big data and cloud computation，based on Hadoop platform, data batch process.

**(*Master Period Coursework*)**

► *University of North Dakota 10/16/2016~ 12/07/2016*

Research Paper: [Generating effective test suite by minimization and optimization of test cases in regression testing](https://weichen.neocities.org/paper/Software_Engineering_paper.pdf) ([experiment code](https://github.com/henrychen222/UND-CSCI565-Advanced-Software-Engineering/tree/master/Term%20paper%20references/Research%20paper/experiement%20program%20code%20%2B%20test/Software-Testing-master-120516-0322a))

► *University of North Dakota 01/10/2017~ 02/22/2017*

*PHP Web Project*

Project name：[A Simple Online Bookstore Using LAMP Technologies](https://weichen.neocities.org/457_Exercise1.html) ([Project Code](https://github.com/henrychen222/457-LAMP-Online-Bookstore))

Design：LAMP (Linux + Apache + MySQL + PHP/Perl/Python)

Technology:

(1) PHP and html are mixed, the table <tr> module which will display multiple data items is placed in two <?php?> chunks, so that php will get the data from the server and puts it back into that<tr> module ([code](https://github.com/henrychen222/457-LAMP-Online-Bookstore/blob/master/administorBookList.php)).

(2) Using the [Longest common subsequence algorithm](https://en.wikipedia.org/wiki/Longest_common_subsequence_problem) to sort the results of the search book

► *University of North Dakota 02/23/2017~ 04/10/2017*

*Android Project*

Project name：[A Native Mobile App for a Bookstore](https://weichen.neocities.org/457_Exercise2.html) ([Project Code](https://github.com/henrychen222/Bookstore_457_Android))

Design：Use server-side PHP script to connect external database (this project is MySQL) with client-side Android Studio code(use URLConnection or HttpClient).

Project functions：

Administrator: Adding books (add one by one, create a layout in android studio app or create a website page for typing each book information), show all added books, show all users, show books purchased by each user.

User：android studio, user login and register，Keyword (case insensitive) search book, sort the searching results, buy books, query personal accounts, show details of each book in a personal account。

Technology：

(1) In the [doInBackground()](https://developer.android.com/reference/android/os/AsyncTask#doInBackground(Params...)) method of the AsyncTask class, the [URLConnection](https://github.com/henrychen222/Bookstore_457_Android/blob/master/app/src/main/java/com/example/weichen/bookstore2/asyncTasd/AddBook_AsyncTask.java) or HTTPClient class is used to create the connection between the [client side](https://github.com/henrychen222/Bookstore_457_Android/tree/master/app/src/main) and the [server side PHP script](https://github.com/henrychen222/Bookstore_457_Android/tree/master/Server-side%20PHP%20scripts). PHP scripts interact with external MySQL on the server.

Reference: [1](http://www.tutorialspoint.com/android/android_php_mysql.htm) [2](https://developer.android.com/reference/android/os/AsyncTask) [3](https://github.com/henrychen222/Books/blob/master/CSCI%20457%20Electronic%20Commerce%20System/Week%2011%20Android%20Server%20Connection/11.1%20Android%20server%20connection.pdf)

(2) Using [Longest common subsequence algorithm](https://en.wikipedia.org/wiki/Longest_common_subsequence_problem) to sort the results of search books.

► *University of North Dakota 04/11/2017~05/03/2017*

*PHP AJAX Web Project*

Project name：[A Location-Based Service (LBS) Using AJAX and HTML5 Technologies](https://weichen.neocities.org/457_Exercise3.html)

([Project Code](https://github.com/henrychen222/457-Google-Map-Geolocation))

Design:

(1) use Google Map API, HTML5 Geolocation, JavaScript, XML, LAMP (Linux + Apache + MySQL + PHP/Perl/Python), and Implementation of location services.

(2). Use Ajax to make location services easy to interact, fun, and user friendly.

Goals：Implement asynchronous processing of multi-location service processes with as

many Ajax as possible.

► *University of North Dakota 09/2017~12/06/2017*

*Perl CGI JDBC Web Project*

Project name: [An Online Bookstore Using a Relational Database](https://weichen.neocities.org/513_Exercise1.html) ([Project Code](https://github.com/henrychen222/513-CGI-Online-Gamestore))

Design: using CGI by using Perl/Python ([html/javascript](https://github.com/henrychen222/513-CGI-Online-Gamestore/blob/master/html/Login_zqw.html)🡪[cgi](https://github.com/henrychen222/513-CGI-Online-Gamestore/blob/master/cgi-bin/checkName_zqw.cgi)🡪[pl/py](https://github.com/henrychen222/513-CGI-Online-Gamestore/blob/master/cgi-bin/checkName_zqw.pl)🡪[JDBC](https://github.com/henrychen222/513-CGI-Online-Gamestore/blob/master/cgi-bin/checkName_zqw.java))

Functions:

Administrator: Entering games, List all data, adding a developer to a game, delete developers, updating the game prices.

Customers: login and register, searching games and ranking the results, purchasing games.

Generic functions: show game data, show developer data, show customer data.

► *University of North Dakota 10/15/2017~12/06/2017*

*Android Project*

Project name：[My Shopping List](http://wenchen.cs.und.edu/course/513/exercise/2/) ([Project Code](https://github.com/henrychen222/513_Grocery2_Shopping_Android))

Design：use embedded database SQLite by writing a class extending [SQLiteOpenHelper](https://github.com/henrychen222/513_Grocery2_Shopping_Android/blob/master/app/src/main/java/com/example/weichen/grocery2/MyDBHelper.java).

Functions：

(1) Add product features, add discount coupons, display all products, display all discount coupons, display discount coupon details, update multiple product prices, and delete discount coupons for a product.

(2) User shopping function, showing the maximum discount, the final price (to be reduced by the discount volume)

Technology:

(1) Use [ScrollView](https://developer.android.com/reference/android/widget/ScrollView) to solve page overflow problems.

(2) Wrapping [LinearLayout](https://developer.android.com/reference/android/widget/LinearLayout) through ScrollView, adding elements to LinearLayout to present multiple pieces of data on the page ([code1](https://github.com/henrychen222/513_Grocery2_Shopping_Android/blob/master/app/src/main/res/layout/list_all_products.xml) [code2](https://github.com/henrychen222/513_Grocery2_Shopping_Android/blob/master/app/src/main/java/com/example/weichen/grocery2/ListProductsActivity.java))

► *Stevens Institute of Technology 04/2018~05/2018*

*Nodejs Web Project*

Project Name: Activity Tracker ([Project Code](https://github.com/henrychen222/Stevens-CS546finalProject-ActivityTracker-Nodejs-Express-MongoDB-/tree/master/cs546finalproject-withaboutpage), [Function Proposal](https://github.com/henrychen222/Stevens-CS546finalProject-ActivityTracker-Nodejs-Express-MongoDB-/blob/master/Final%20Project%20Proposal%201%20-%20Arrays%20Start%20at%201.pdf), [DB design](https://github.com/henrychen222/Stevens-CS546finalProject-ActivityTracker-Nodejs-Express-MongoDB-/blob/master/Arrays%20Start%20At%201%20-%20Database%20Proposal%20-%20FP2.pdf))

Techs: [Nodejs](https://nodejs.org/en/), [Express](https://expressjs.com/), [handlebar](https://handlebarsjs.com/), [MongoDB](https://docs.mongodb.com/manual/administration/install-community/)

► *Stevens Institute of Technology 04/2018~05/2018*

*Nodejs React Web Project*

Project Name: Virtual PetPal ([Project Code](https://github.com/henrychen222/Stevens-CS554finalProject-React-Redux/tree/master/server), [Function Proposal](https://github.com/henrychen222/Stevens-CS554finalProject-React-Redux/blob/master/Final%20Project%20Technical%20Implementation%20Plan.pdf))

Techs: Nodejs, Express, [React](https://reactjs.org/), [Redux](https://redux.js.org/), MongoDB, [Google API](http://www.passportjs.org/docs/google/) (for user login)

► *Stevens Institute of Technology 11/2018~12/2018*

*Data Analysis Project with Python and R*

Project Name: Spotify Music Analysis ([Project Code](https://github.com/henrychen222/Stevens-CS513-Knowledge-Discovery-and-Data-Mining/tree/master/Final%20Project%20Code/513finalProject-Spotify%20Music%20Analysis))

Techs: R packages ([K-Nearest-Neighbor](https://www.rdocumentation.org/packages/DMwR/versions/0.4.1/topics/kNN), [Cart](https://cran.r-project.org/web/packages/rpart/rpart.pdf), [C50](https://cran.r-project.org/web/packages/C50/C50.pdf), [Neural Network](https://cran.r-project.org/web/packages/neuralnet/neuralnet.pdf), [Random Forest](https://www.rdocumentation.org/packages/randomForest/versions/4.6-14/topics/randomForest), [Support Vector Machine](https://www.rdocumentation.org/packages/e1071/versions/1.7-0/topics/svm), [Hierarchical Clustering](https://www.rdocumentation.org/packages/stats/versions/3.5.2/topics/hclust), [k-means](https://www.rdocumentation.org/packages/stats/versions/3.5.2/topics/kmeans)), Python Pandas, Seaborn, scikit-learn

★ **Social Experience**

► 09/2012-06/2013, joined in the Associations Union of Nanjing Xiaozhuang University, mainly in charge of the program of “Xiaozhuang Night”

► In 2013winter holidays, as a network maintenance assistant, I worked in “Jiangsu Xidihuanqiu Building Project Management Co., Ltd.”

► In 2016winter holidays, as a volunteer in Nanjing Xiaohang Community, I helped a few poor children to study lessons and help them to set up active and optimistic life attitudes

► 09/2016 - 05/2017, being employed as a dishroom worker at UND dinning service

►08/2017-12/2017, being employed as a stagehand worker at UND Chester Fritz Auditorium

►08/2017-12/2017, being employed as a web developer for UND language department