Hanqi Du

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**Objective**

To obtain an internship/full-time in the field of Computer Science after December 2016.

**Education**

Purdue University, West Lafayette, IN Dec. 2016

Bachelor of Science in Computer Science GPA: 3.50/4.0

Area of Study: Software Engineering, Machine Intelligence

Minor in Mathematics

Languages: C, JAVA, C++, ARM, SQL, MYSQL, PL/SQL, HTML, swift, PHP, CSS

Operating Systems: Linux

**CS Experience**

* Internship

Purdue University Summer 2016

* + Involved in the internship program at Purdue University, which is named *GoBoiler Internship Program*.
  + Developed psychology survey webpages for a professor from Psychology Department of Purdue University.
  + Implemented in PHP, HTML, CSS and SQL.
  + Designed webpages, implemented the database and connected the webpages to the database.
  + Relevant projects

1. Wegroup Project, Purdue University Spring 2016

* An instant chat app.
* Implemented in swift.
* Implemented front ends.

1. WeatherPipe Project, Purdue University Fall 2015

* Developed a weather analysis tool for an Associate Professor in the Department of Earth, Atmospheric, and Planetary Sciences at Purdue University.
* Implemented in PHP, HTML, CSS and SQL.
* Developed the tool used to help researchers to analyze the NEXRAD data that is freely available on Amazon S3.
* Implemented the part of accepting specific time periods from the users such as a range of dates or a specific scheme of dates and search the buckets in S3 for corresponding files.
* Implemented the part of sending signals to Amazon to control the whole process.
* Created Junit tests for all testable functions.

1. Process Game, Purdue University Spring 2015

* Implemented in C.
* Between 2 and 5 programs could participate.
* Game was set up by an arena program, which creates N processes of each participant running under the same user id.
* Participating programs made as many processes in the arena to be duplicates of themselves and kill other processes.
* Came up with ideas and implement with two teammates.
  + Guessed some processes’ ids that were not ours and kill them.
  + Duplicated processes all the time.
* We got top 5 among the class in the competition.

1. Random Forests Project, Purdue University Fall 2014

* Implemented in Java.
* Used the given data to create decision trees according to the given demand.
* Used those decision trees to evaluate other data.

1. Purdue Safe Walk System Project, Purdue University Fall 2013

* Implemented in Java.
* Created algorithm according to the given demand.
  + Used linked list of customized type to store the requesters’ and volunteers’ information.
  + Used the customized type, we can get to know how much time we need to walk between each locations and the distance between each locations.
  + Could match volunteers and requester according to their distance or the time they sign up for the service.
* Implemented the software with my teammate.

**Affiliations**

* National Society of Leadership and Success (NSLS) Fall 2014 – present
* Alpha Lambda Delta Phi Eta Sigma 2014 - present
* National leadership and honors organization 2014 – present
* National Society of Collegiate Scholars (NSCS) Spring 2014 – present
* Boiler Out Program, Purdue University Fall 2013 – Fall 2014
  + Lafayette Symphony Orchetra
  + Big Ten Swim Meet
  + Elementary school