**HAOCHEN WANG**

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**Work experience and research projects:**

**Embedded Software engineer (2014.8-2015.8)**

***Sensor CAT lab***–*Stony Brook, NY*

Designed and implemented a color composition detection and estimation system using C++ in accordance to industrial standard for a commercial company.  
Performed in-depth electrical acceptance testing of completed hardware, including  
continuity and high potential isolation testing.  
 Experience in designing Acrylic board and PCB using Eagle.

**Back-end web developer(2012.6-2012.12)**  
***Innovation Camp***–*Shanghai*, *China*

Developed Android mobile application oriented for college students including course schedule, evaluation and comment.

 Work on back-end and server side, wrote Python/Django code to establish website and server, as well as maintain database using MySQL.  
Wrote maintainable and extensible code and debug on Unix system, and committed to an open source project on Github.

Github: <https://github.com/pkuapp/pkuapp_server>

**Research assistant (2012.12-2013.6)**

***National computer network research lab*** –*Beijing*, *China*

Research topic in evaluation on performance of Named Data Networks (NDN).

Run automation test program written in Java on Linux platform validating the authentication of an NDN infrastructure, and reformulate models if necessary.  
Present and provide with detailed and comprehensive research project reports.

**Graduate teaching assistant (2013.8-2014.5)**  
***Stony Brook University*** –*Stony Brook*, *NY*

 Assist in teaching lab techniques on VHDL concurrent and sequential design and implement.   
Helped instructor grade exam papers teach in lab sessions and spend extra time to answer  
students' questions.

Github: <https://github.com/allenwhc/VHDL>

**Data Mining (2014.2-2015.2)**

***Stony Brook University*** –*Stony Brook*, *NY*

*Language used:* ***C++, Python***

Implement Star cubing, Frequent-Pattern growth tree, Decision tree and Kernighan-Lin algorithm.

Write simple test cases for authenticating correction of established model and algorithm.

Github: <https://github.com/allenwhc/Algorithm>

**Algorithm/Data structure (2009.9-)**

 Include course project, Leetcode practice, Hackerranks online code challenge.

Github: <https://github.com/allenwhc/Data-Mining>

**Education:**

**Master of Science**: **Electrical engineering (2013.8-2015.12)**  
***Stony Brook University*** - *Stony Brook*, *NY*

GPA 3.8/4.0. Experience in algorithm, data structure and machine learning.

**Bachelor of Science**: **Computer engineering (2009.8-2013.6)**  
***Beijing University of Posts and Telecommunications*** - *Beijing*, *China*

GPA 3.5/4.0.

**Skills:**

**Programming skills:** C++, Java, Python/Django, MySQL, HTML/CSS/Javascript

**Design skills:** Data mining, VHDL, Linux, embedded system design, Eagle PCB design.