Dongning Wang

25 Union Square West APT C3-3D, NY 10003
dw1504@nyu.edu (347) 859-7577

Education

New York University, New York, NY   **Sept 2012 – present**
Bachelor of Arts in Computer Science and Economics
Expected graduation in May 2017
Dean's List Honors (2013-2014 & 2014-2015)
GPA: 3.9/4.0

Laboratory Experience

Malloc Lab: Writing a dynamic memory allocator   **Nov 2015 – Dec 2015**
- Designed personal version of dynamic storage allocator with malloc, free and realloc routines (without pre-built memory-management related library calls or system calls)
- Maximized performance (space utilization and throughout) to 95.7% using segregated free list as a storage for free spaces
- Created additional features, such as checking heap consistency, for the completeness and insusceptibility of the program to avoid possible hacking through overwriting the information malloced by the user

Rabin-Karp Lab: Approximate document matching   **Sep 2015 ─ Oct 2015**
- Constructed four document-matching programs to calculate the similarity between two pieces of information, with each successive program achieving better runtime performance
- Derived the relatively best matching method from Rabin-Karp algorithm and achieved its best/average runtime
- Adapted this self-designed Rabin-Karp Program to check for plagiarism while working as a teaching assistant

Work Experience

New York University – *Teaching Assistant/Grader, Data Structure*   **Sept 2015 – Present**
- Graded assignments and quizzes, and voluntarily provided professor with analysis reports that compiled common mistakes and suggested possible reasons for and course concepts related to those mistakes
- Held weekly office hours through Piazza (a Q&A web service), explaining course concepts and resolving technical issues such as difficulty with project setups

Hosh Yoga Non-Profit Organization – *Accountant*   **Sept 2014 – May 2015**
- Optimized management system by introducing the use of QuickBooks for creating invoices, spotting suspicious reimbursements, and reducing possible overhead
- Created income statements and cash flow statements totaling approximately $40,000 per month
- Made wage payments for more than 30 employees and created invoices for more than 20 schools each month

Stuyvesant High School – *English/Chinese Interpreter*   **Jan 2014 – May 2015**
- Consecutive interpreting for non-English-speaking parents and teachers regarding student's academic performance on one-on-one meetings
- Helped familiarize parents to their child's academic strengths and weaknesses, as well as their child's extra-curricular activities and suggestions regarding college applications

Skills and Achievements
- **Programming Languages:** Java, JavaScript, python, C, Matlab
- Fluent in English, Mandarin Chinese (native speaker), and Cantonese Chinese