

ZHANPENG WANG

zwang10@haverford.edu
781-654-7343

EDUCATION:

Haverford College, Haverford, PA

B.S. Candidate May 2020

- *Major*: Computer Science. *Minor*: Economics
- *GPA*: 3.80 / 4.00
- *Relevant Coursework*: Principle of Programming Languages, Operating System, Computer Security, Econometrics, Analysis of Algorithms, Data Structures, Linear Algebra, Mobile Development, Computer Organization.

WORK EXPERIENCE:

Research Assistant—Haverford College Computer Science Department, Haverford, PA

May 2018 – Present

- Developed faceted execution that passes a variable with private and public values to enhance information flow control.
- Utilized full-fledged Racket Macros and the concept of lambda calculus to design the new language Racets.
- Optimized the construction of a faceted value in runtime by implementing a function form that can efficiently build faceted value by considering multiple base cases and running recursion on complicated cases.
- Tested and debugged the implementation of Racets through comprehensive unit tests.

Digital Scholarship Assistant—Haverford College Magill Library, Haverford, PA

Jan. 2017 – Apr. 2018

- Developed the library websites for existing and new projects to improve the loading speeds of webpages by 12%.
- Troubleshooted and identified solutions for the Linux web server problems by evaluating system logs.

PROJECTS:

Suohaqkl.com *An online Chinese trading platform of Cryptocurrency*

- Used PHP, HTML, and MySQL to create a website that allows hundreds of users to trade cryptocurrencies
- Remotely configured Windows server 2008 R2 64bit to deploy the trading platform website
- Setup a Google domain and directed it to the Hong Kong server by editing the DNS record

Super TZJ File System *a small working file server built within a team for Operating System course*

- Used C to build a working terminal shell and C++ to build an inode file system on top of the terminal shell.
- Implemented a correct algorithm that could traverse a given directory and return back its inode-entry, which is fundamental for reading, writing, and creating a new file in the file system.
- Setup several milestones of the file system for the whole team to get it working before due date.

Zhanpengwang.com *my Jekyll-powered Github-page-based personal website*

- Utilized Yummy Jekyll to build an interactive personal website on Github page to allow people to learn about me.

The Space Invaders Mock project

- Implemented a new version of the classic arcade game Space Invaders using Java and Processing software.

ACTIVITIES:

Member—FIG Computer Science Club, Haverford College, Haverford, PA

Oct. 2017 – Present

- Worked with team members to improve the existing apps for Haverford College.
- Initiated the idea of an app that helps professors to memorize the students by face-name matching game.

HONORS and AWARDS:

- University of Pennsylvania 4+1 Engineering Master Program (CIS) —To scholar who holds excellent academic standing a direct admission to University of Pennsylvania CIS Master program after graduation from college.
- QuestBridge College Match Scholarship—To scholars who are first-generation students and have excellent academic records with admissions to one of QuestBridge's partner colleges and a full, four-year scholarship.

SKILLS:

Frameworks: Eclipse, Emacs, Processing, Flask, Android Studio, Stata14, Django, Docker
Computer Languages: Python, Java, C, Racket, C++, PHP, MySQL, HTML5/CSS