

ZHANPENG WANG

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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, Discrete mathematics

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

WORK EXPERIENCE:

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

May 2018 – Present

- Developed the faceted execution that passes a variable with private and public values for secure information flow
- Built a new language named Racets using full-fledged Racket macros
- Optimized the construction of a faceted value by 50% in runtime by designing and implementing a new function
- 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%
- Evaluated system logs in Linux terminal to troubleshoot the web services

PROJECTS:

Racets

- An ongoing Racket project collaborated with CS professors
- Implemented the concept of faceted execution to enhance the secure flow of information in computer programs
- Utilized full-fledged Racket Macros and the concept of lambda calculus to design the new language Racets
- Contributed the implementation of faceted execution semantics to the language

Suohaqkl.com Cryptocurrency Trading Platform

- An online Chinese trading platform of Cryptocurrency with a Ali Hong Kong server and a Google domain name
- 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

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

SKILLS:

Frameworks: Eclipse, Emacs, Processing, Flask, Android Studio, Stata14, Django, Docker

Computer Languages: Python, Java, Racket, C, C++, PHP, MySQL, HTML5/CSS