

Zhanpeng Wang

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EDUCATION:

University of Pennsylvania, School of Engineering and Applied Science May 2021

- *Candidate for Master of Science in Engineering*: Computer and Information Science
- *Cumulative GPA*: 3.90 / 4.00
- *Relevant Coursework*: Internet and Web Systems, Artificial Intelligence, Machine Learning

Haverford College, Haverford, PA May 2020

- *Bachelor of Science*: Computer Science
- *Cumulative GPA*: 3.83 / 4.00
- *Relevant Coursework*: Principle of Programming Languages, Operating System, Computer Security, Analysis of Algorithms, Theory of Computation, Data Structures, Linear Algebra, Mobile Development, Computer Organization.

WORK EXPERIENCE:

Software Engineering Intern—Facebook Location Service, Boston, MA May 2020 – Aug. 2020

- Utilized the SLAM (i.e., Simultaneous Localization and Mapping) technology of the Google ARCore APIs to draw location trace on a map based on an initial location, a device's camera position, and its compass orientation.
- Developed an android test application in Kotlin to test and debug the location service developed by Facebook.
- Discovered a deadlock within the location service APIs and fixed it by removing unnecessary synchronization logic.

Software Engineering Intern—Facebook Messenger Kids, Menlo Park, CA May 2019 – Aug. 2019

- Reduced the binary size of the Messenger Kids by 25% with means of rendering the assets images using web requests from the Facebook backend service.
- Improved the onboarding flow of the app by replacing the first 3 screens with new light-weighted screens while preserving their functionalities.
- Created an experiment to evaluate the quality of the new screens and the feedback of existing users on them

Research Assistant—Haverford College Computer Science Department, Haverford, PA May 2018 – May 2019

- Developed faceted execution that passes a variable with private and public values to enhance information flow.
- 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.

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 system 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.

HONORS and AWARDS:

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- 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, Kotlin, PHP/Hack, C/C++, Racket, MySQL, HTML5/CSS