

Yuxiao Wang

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EDUCATION

Haverford College, Haverford, PA

Expected graduation: May 2021

B.S. in Computer Science; minor in Japanese; GPA: 3.9/4.0

University of Pennsylvania, Philadelphia, PA

Expected graduation: May 2022

M.S.E. in Computer and Information Science

- **Relevant Courses:** Operating Systems, Computer and Network Security, Analysis of Algorithms and Data Structures, Compiler Design, Linear Optimization, etc.

PROFESSIONAL EXPERIENCE

Software Engineer Intern – Visual Concepts (2K Games), Novato, CA

May – Aug. 2020

- Actively participated in the development of the NBA 2K franchise by building and maintaining proprietary tools and software used by 60+ game designers, artists, and producers.
- Developed game asset and animation management software with WPF framework in C#; improved response time through optimizing event handling logic and string searching algorithms.
- Skillfully automated game environment production; eliminated human error by creating a path generator for 20k actors in 30+ environments having different shapes, using 3D geometry in Python.
- Constantly supported the art pipeline, providing tools for porting game assets across multiple console platforms, and tools to review camera shots built with video processing libraries (FFmpeg, OpenCV).

Software Engineer Intern – Ringle AI, Shenzhen, China

June – Aug. 2019

- Developed and maintained the server-side of a shopping mobile application in Golang and actively involved in the full development lifecycle including implementation of new features, QA testing, server deployment, version distribution, and server status monitoring.
- Built a RESTful API with Golang Gin web framework and used Protobuf/JSON as data serialization.
- Designed PostgreSQL and MySQL databases and significantly enhanced database performance by utilizing ORM frameworks, adding crucial indices, and improving slow SQL queries.
- Resolved issues in highly concurrent scenarios with locking strategies, load balancing & Goroutines.
- Utilized logging packages in Golang, the Linux command line (Bash/Zsh), and automation testing tools such as JMeter to debug and perform stress testing.

PROJECTS

Bi-Co Blue Bus App (*HTML, CSS, JavaScript*; <https://github.com/sgrayrw/blue-bus-miniprogram>)

- Created a mobile application that displays the scheduled time of the shuttle bus between Haverford College and Bryn Mawr College; gained 218 users out of 1310 students up to this date.
- Developed a crawler to parse schedule info from bus website and managed data in a cloud database.

File system and shell: “mysh” (*C, Operating Systems*; <https://github.com/sgrayrw/mysh>)

- Designed and implemented a Unix-like inode-based file system and a powerful shell as its CLI.
- Supported file-system related shell commands, job control, and execution of binaries.

PROFESSIONAL SKILLS

- **Programming Languages:** Python, C, C++, C#, Golang, Javascript, Java, Racket, x86-64 Assembly
- **Frameworks/Libraries:** WPF, Gin, gRPC, Streamlit, FFmpeg, OpenCV, NumPy, POSIX
- **Databases/Tools:** MySQL, PostgreSQL, Unix/Linux and Win shell scripting, VCS (Git, Perforce)