

# Yuxiao Wang

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## EDUCATION

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**Haverford College**, Haverford, PA

B.S. Candidate May 2021

- Major: *Computer Science* and *Mathematics*. Minor: *Japanese*.
- GPA: **3.9** / 4.0.
- Relevant courses: Operating Systems, Data Structures and Algorithms, Linear and Abstract Algebra, Principles of Programming Languages, Discrete Mathematics, Linear Optimization, etc.

## PROFESSIONAL EXPERIENCE

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**Software Engineering Intern – Ringle AI**, Shenzhen, China

June 2019 – Aug. 2019

- Developed and maintained a part of the server-side of a shopping mobile application using Golang; participated in the entire lifecycle of the product including implementation of new features, testing, server deployment, version distribution, and server status monitoring.
- Built a RESTful API service to serve requests from the front-end using HTTP frameworks in Golang; cooperated with front-end developers in the team on data transfer solutions including routing HTTP requests and serialization with Protobuf/JSON.
- Designed databases in PostgreSQL & MySQL; enhanced database performance by adding crucial indices and improving slow sql queries; utilized ORM frameworks to perform CRUD operations; handled highly concurrent scenarios by adopting locking strategies and load balancing.
- 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

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

- Built an application that displays the scheduled time of the shuttle bus between Haverford College and Bryn Mawr College, which enables students to check the schedule quickly without having to access the bus website; gained 186 users out of 1310 students so far.
- Managed schedule data by retrieving and parsing data from the bus website, saving to a cloud-based database, and presenting the most relevant data to users using SQL queries.

**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 user interface; supported file-system related shell commands, job control, and execution of binaries.

**Personal Website** (*Markdown, Git automation*; <https://rayrw.com>)

- Set up a website using the hexo blog framework and automated git deployment using Travis CI.

**Trico-Menu App, Tri-co Hackathon 2019**, Swarthmore College

(*Java, HTML, Android Studio*; <https://github.com/sgrayrw/Tri-co-Hackathon-2019--Tri-co-Menu>)

- Built a menu app updating in real time in response to target websites.
- Provided back-end data support by parsing target html files into sorted, categorized information.
- Actively participated in UI, UX design, and presentation of the final prototype of the application.

## PROFESSIONAL SKILLS

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- **Programming Languages:** C, Python (2 years); Golang, Java, Racket, x86-64 Assembly.
- **Tools and Others:** Unix/Linux command line, VCS (Git).
- **Natural Languages:** Chinese, English, Japanese.