

# WEIYI ZHU

500 College Ave., Swarthmore, PA 19081

☎ (+1)949-526-2914    ✉ [zhuwy99@gmail.com](mailto:zhuwy99@gmail.com)    📄 [github.com/weiyizhu](https://github.com/weiyizhu)    🔗 [linkedin.com/in/zhuweiyi](https://www.linkedin.com/in/zhuweiyi)

## WORK EXPERIENCE

---

### Amazon

May 2022 – August 2022

*Software Development Engineer Intern*

*Seattle, WA*

- Accelerated the debugging process by 80% for on-call engineers by creating a parsing tool that finds metrics from logs.
- Designed the tool to be scalable, extensible, and capable of processing over 12k logs per minute.
- Utilized 5+ AWS services and led the project from design to implementation.

### MetroNet

May 2021 – August 2021

*Software Engineering Intern*

*Evansville, IN*

- Automated the phone porting process which contributed to the company's 90% installation success rate goal.
- Revamped the field technician tools interface by replacing table designs with responsive card and grid layouts.
- Designed, implemented, and tested reusable global utility components.

### Avidian Technologies

May 2020 – May 2021

*Software Engineering Intern*

*Bellevue, WA*

- Saved the company \$1,200 annually by automating the process of creating new customer databases.
- Launched a desktop and web app that gave users easier access to reports and administrators better management tools.
- Designed tables that displayed logs with sorting and searching features through server-side pagination.

## PERSONAL PROJECTS

---

### Bird Compiler

May 2023

*Class Project*

- Developed a compiler in OCaml that parses, transforms, and compiles the “bird” language into x86-64 assembly.
- Implemented language features including loops, conditionals, tuples, first-class functions and partial application.
- Optimized performance and memory use by implementing mark-compact garbage collection and tail-call optimization.

### Hablink

May 2022

*Team Project*

- Developed a cross-platform mobile application that allows users to build and share habits with others.
- Implemented features for users to create/share habits, add/remove friends, and enter a competition with a friend.
- Utilized Firebase for user authentication, data storage, and real-time updates.

### News Compare

Aug 2021

*Personal Project*

- Developed a news comparison website with keywords searching, source selections and filtering options.
- Implemented a user authentication system with access and reset tokens using JSON Web Token.
- Allowed users to save, manage and recover their favorite searches and news articles.

### 9 PM - Team Finder

Sep 2020

*Hackathon Project*

- Developed an online teaming platform that helps gamers find teammates based on available time, games, and teams.
- Implemented features including create/join teams and edit/manage team information.

## SKILLS

---

**Programming Languages:** Python, JavaScript, Java, OCaml, C++

**Frameworks:** React (Native), Express, TypeScript, Redux, GraphQL, SQL, MongoDB, Firebase

**Tools:** Git, AWS, Unix/Linux, Figma, Heroku, Vim

**Languages:** English (fluent), Mandarin (fluent)

## EDUCATION

---

### Swarthmore College

May 2023

*Bachelor of Arts in Computer Science*

*Swarthmore, PA*

**GPA:** 3.8/4.0