

# Kevin Wu

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## Education

### Purdue University

B.S. in Computer Science Honors

B.S. in Mathematics

Aug. 2019 – Dec. 2022

GPA: 4.00

Dean's List + Semester Honors all semesters

## Skills

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

**Tools/Frameworks:** Git, HTML/CSS, Django, React, Linux

## Experience

### Two Sigma

Incoming Software Engineer Intern

New York, NY

Starting May 2022

- Incoming intern for the Summer 2022 term

### Citrix

Software Engineer Intern, App Layering

Burlington, MA (Remote)

May 2021 – Aug. 2021

- Developed a Windows Shell extension using C++ to show files that are only on a user's writable layer
- Improved file list times by 20% for Citrix's app layer viewer using lazy loading
- Refactored the registry initialization routine in the Citrix Composite File System driver, reducing it from 1000 lines of code to 300

### Google Summer of Code (Debian)

Student Developer

Remote

May 2020 – Aug. 2020

- Developed and tested Crossgrader, a package to switch the CPU architecture of a Debian installation
- Reduced cross-grade times from 6+ hours to 30 minutes using libapt's Python interface
- Currently maintaining Crossgrader in the Debian package archive

## Projects

### HackQ-Trivia | Python, Natural language processing

Feb. 2018 – May 2021

- Developed a bot that answers HQ Trivia's questions during live shows in real time
- Reverse-engineered HQ's client-server communication to receive questions
- Utilized Python's Natural Language Toolkit to analyze search results and determine most likely answer
- Improved question answering speed by 3x using asynchronous HTTP requests

### Tsunami | C, C++, Windows Driver Kit

Nov. 2018 – May 2020

- Built a Windows kernel driver that covertly reads and writes a process's memory
- Developed a proof-of-concept wallhack using Tsunami for the first-person shooter game Overwatch
- Implemented discardable section hijacking and page table entry remapping to evade anti-cheat detection

## Achievements

- **Jerison Memorial Award in Analysis** Apr. 2022
- **Boilermake IX** – Best Agricultural Innovation Award Jan. 2022
- **Purdue Corporate Partner Scholarship** Apr. 2021
- **AMCS Spring Coding Challenge** – 1st place Feb. 2020
- **American Computer Science League All-Star Contest** – 1st place, Senior-3 Division May 2019
- **Purdue ACM Coding Competition** – 1st place Apr. 2019