

Kevin Wu

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Education

Purdue University

B.S. in Computer Science Honors
B.S. in Mathematics Honors

Aug. 2019 – Dec. 2022

GPA: 4.00

Dean's List + Semester Honors all semesters

Skills

Languages: Python, C, C++, Java, JavaScript, HTML/CSS

Tools/Frameworks: Git, Django, React, Linux

Experience

Two Sigma

Software Engineer Intern, Foundational Storage

New York, NY

May 2022 – Aug. 2022

- Extended Two Sigma's S3 Web UI (TS3UI) to Google Cloud Storage buckets using Java and Python
- Spearheaded TS3UI redesign by creating mockups in Figma and implementing designs in React, releasing to over 400 monthly active users
- Led unification of bucket permission management using ACLs in on-prem and GCS buckets
- Discovered and patched cross site scripting vulnerabilities within three internal products

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