Kevin Wu

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Education

Purdue University *Aug. 2019 – Dec. 2022*
B.S. in Computer Science Honors GPA: 4.00
B.S. in Mathematics Dean's List + Semester Honors all semesters

Skills

Languages: Python (6yrs), Java (4yrs), C (2yrs), C++ (2yrs)
Tools: Git, Django, React, Linux, Unity

Experience

Citrix Boston, MA (Remote)
Software Engineer Intern *May 2021 – Aug. 2021*

- Created ScanWritableFiles, a Windows Shell extension for Citrix App Layering to show files that are only on a user's writable layer
- Reduced file and registry key list times of AppRuleCompare (a support tool built with C++/MFC) by 30 minutes using lazy loading
- Used WinDbg to debug a file read issue in the Composite File System (CFS) driver
- Designed and implemented data-driven registry value initialization within the CFS kernel driver

Google Summer of Code (Debian) Remote
Student Developer *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
- Presented final product at DebConf20; maintained Crossgrader and uploaded Crossgrader to the Debian package archive

Projects

Synchronous | *JavaScript, React, Python, Django* | https://synchronous.codes *Jan. 2021 – Present*

- Worked in a team of 4 to engineer a web app for creating temporary collaborative workspaces
- Engineered a RESTful API using the Django REST Framework for workspace and app creation
- Used React to develop a user-friendly UI interfacing with the API

HackQ-Trivia | *Python, Natural language processing* *Feb. 2018 – Present*

- Developed a bot that answers HQ Trivia's questions during live shows
- Reverse-engineered HQ's WebSocket-based 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*

- Programmed a Windows driver that covertly reads and writes a process's memory from kernel space
- Implemented manual mapping and page table entry remapping techniques to evade detection
- Developed a proof-of-concept wallhack using Tsunami for the first-person shooter game Overwatch

Achievements

- **Purdue Corporate Partner Scholarship** *Apr. 2021*
- **AMCS Spring Coding Challenge** – 1st place *Feb. 2020*
- **American Computer Science League All-Star Contest** – Senior-3 Division 1st place *May 2019*
- **Purdue ACM Coding Competition** – 1st place *Apr. 2019*