

Robert Geil

(614) 961-7753

<https://rgeil.net> • <https://github.com/Infirmarian> • robert@rgeil.net

Education

University of California, Los Angeles

2017-present

- **3.74 GPA**
- Major: Computer Science
- Relevant Coursework: Data Structures and Algorithms, Computer Network Fundamentals, Operating Systems, Programming Languages, Database Systems, Computer Graphics, Linear Algebra, Discrete Mathematics

Upper Arlington High School, Columbus, OH

2013-2017

Skills and Proficiencies

C/C++, Python, Golang, Java, C#, SQL, Unity 3D, HTML/CSS, Git Version Control, Linux/UNIX, Excel, Agile

Work Experience

Security Technology and Response Intern at Symantec

Summer 2019

- Designed a custom language to describe malware behavior signatures, and wrote a lexer, parser and compiler in Python to transcribe the language into C++, building on a previous language at Symantec
- Created an engine to generate events while emulating an executable, and efficiently match these events to behavior signatures from my custom language
- Wrote a highly customizable virtual file system and virtual Windows registry in C++ and Python to support x86 static emulation of potential malware and combat anti-emulation techniques

Data Analyst Intern at ORIS Intelligence

Summer 2018

- Independently wrote several Python web scrapers to categorize company-tracked websites
- Scrapers I developed allowed site monitoring issues to be detected and addressed on a much larger scale, and helped to discover thousands of previously untracked web pages

Projects

Water Wars

March 2019

- Created a web application for LA Hacks to gather and display water usage information to encourage conservation
- Collaborated with three other students, with primary responsibilities being Java server-side programming, PostgreSQL database creation and management, and deployment to Google Cloud Platform

Saucebot

October 2018

- Solo developer for a GroupMe and Google Action bot that scrapes dining hall pages, tracks food items, and interacts with users
- Written in Python 3 using BeautifulSoup, PostgreSQL, DialogFlow, and Flask. The app and database are hosted using Google Cloud Platform

Activities

Team Lead for ACM Game Studio

2019-present

- Help to mentor students through their development of games
- Integrate artwork and programming as well as manage timelines to produce a finished game

Officer of ACM Game Studio, a game development club at UCLA

2018-present

- One of four officers of Game Studio, the largest game-making club at UCLA
- Responsible for teaching new members Unity and game development

Clarinetist in the UCLA Marching Band

2017-present

Awards

Four time member of the Dean's List

2017-2019

National Merit Scholarship Winner

2017