Robert Geil

https://rgeil.net ● https://github.com/Infirmarian ● robert@rgeil.net

Education

University of California, Los Angeles   2017-present
- **3.787 GPA**
- Major: Computer Science
- Relevant Coursework: Data Structures and Algorithms, Computer Network Fundamentals, Operating Systems, Parallel and Distributed Computing, Database Systems, Compiler Construction, Scalable Internet Systems

Upper Arlington High School, Columbus, OH   2013-2017

Skills and Proficiencies

C++, C, Python, Go, Java, Kotlin, C#, TypeScript and JavaScript, SQL, NoSQL

ReactJS, GraphQL, Google Cloud Platform, Firebase, AWS, Linux/UNIX, Git, Unity 3D

Work Experience

Software Engineering Intern at Belvedere Trading   Summer 2020
- Built a microservice to stream, analyze and push Twitter feeds to multiple endpoints, allowing significant Tweets to be consumed in real time and with historical context by traders and quants to inform strategies
- Completed Belvedere Trading's four week training program focusing on core option and market theory

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
- 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

Stream Universe   Spring 2020
- Created an aggregation site for catalogs of Netflix, Hulu, Disney+, Amazon Prime and HBO, allowing users to query and filter content from all of the streaming services in one location
- Reverse-engineered APIs and setup Firebase, Elasticsearch, Cloud Functions and a React website, allowing over 18,000 movies and shows to be stored and retrieved by users

StorySeeker   2019-2020
- Built and released an Alexa Skill and companion website where users can write and listen to choose-your-own-adventure style stories
- Working with one partner, I personally developed the skill using Python and Postgres, and built the website backend with Python, Flask, Postgres and AWS

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, Postgres, DialogFlow, and Flask. The app and database are hosted using Google Cloud Platform

Activities

Officer of ACM Game Studio, a game development club at UCLA   2018-present
- One of six officers of Game Studio, the largest game-making club at UCLA

Clarinetist in the UCLA Marching Band   2017-present

Awards

Member of Upsilon Pi Epsilon, California Beta Chapter   Inducted 2019

Six time member of the Dean's List   2017-2020