

Sean Gatewood

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>> Education

University of Virginia (Charlottesville, VA), Rodman Scholar, Raven Society

Expected May 2020

- B.S. Computer Science. GPA: 3.953.

Relevant courses: Algorithms, Advanced Software Development, Introduction to Cybersecurity

>> Experience

Software Engineering Intern, Uber Advanced Technologies Group (Pittsburgh, PA)

May 2019 - August 2019

- Developed implementations for a low-level key-value store using various database technologies (e.g. LevelDB, SQLite3)
- Performed an experiment using Google Benchmark to measure the relative performances of implementations.
- Gained experience with real-world workflows and development systems.
- Presented results to Uber ATG software engineers.

Teaching Assistant - Introduction to Programming, University of Virginia (Charlottesville, VA)

Fall 2017 - Present

- Assist hundreds of students with introductory programming concepts in Python.
- Create [review videos](#) and study material for the students.
- Currently help manage the course as one of four "Head TAs."

Software Engineering Intern, NASA Langley Research Center (Hampton, VA)

May 2018 - May 2019

- "Data Management for Airborne Atmospheric Composition Data."
- Added HDF file compatibility to NASA's TOLNet [File Format Scanner and Curtain/Profiles Plotter](#).
- Engineered a [full-stack web application](#) for atmospheric researchers to create customized data merges.
- Presented a working prototype to atmospheric researchers and received design feedback.
- Continued as a "casual employee" of Science Systems and Applications, Inc (SSAI) to continue work on the merge tool.

Teaching Assistant - Introduction to Engineering, University of Virginia (Charlottesville, VA)

Fall 2017

- Advised first-year engineering students and helped teach [introductory engineering concepts](#).

>> Skills

Languages (in order of proficiency): Python, C++, C, JavaScript, Java, x86 Assembly, PHP, Swift

Other Technologies/Software: HTML, CSS, Markdown, JQuery, AJAX, Django, Cgicc, NodeJS, WebGL, macOS, Windows, Linux, Vim, Makefiles, Bash Scripting, LabVIEW, Autodesk Inventor, LaTeX, Visual Studio, VS Code, Git/GitHub, JUnit Testing, Google Test, Google Benchmark, Atom, SQL/SQLite3, Chrome Extensions, SSH, SSHFS

Other Skills/Hobbies: Video Production / Editing, Stand-up Comedy, Clarinet, Djembe

>> Projects

Website

Fall 2019

- Currently working on a [personal website](#) for fun and profit.
- Will host my various web tools and resources for future students to access.

Capstone Research

Fall 2019

- Working on a team of researchers to create an "Automated Advising Assistant" for UVA.
- Sub-team: Full-Stack/Applications Team

TA Sorter

Spring 2019

- Created a [program](#) to help us sort out TA office hour and lab preferences using Max Flow.

Yelp for Off-Grounds Housing

Spring 2019

- Worked on a team of developers to create a [Django app](#) to help students browse housing in Charlottesville.

Office Hours Chrome Extension

Fall 2018

- Created a [Chrome extension](#) to notify TAs when a student needs help in Office Hours.