

Sean Gatewood

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>> Education

University of Virginia (May 2020) Rodman Scholar, Raven Society

- B.S. Computer Science. GPA 3.95

Notable Courses: Computer Graphics, Algorithms, Advanced Software Development, Introduction to Cybersecurity, Software Testing

>> Experience

Software Engineer II, Appian Corporation (McLean, VA)

August 2020 - present

- Currently work on a SCRUM team that creates and maintains a variety of internal developer tooling and infrastructure.
- Helped design and implement a modern feature toggles framework for a legacy codebase. This project was pretty extensive and incorporated a variety of tooling and services.
- Performed numerous spikes, some of which turned into real quarter-long features.
- Maintained very high code quality standards since our team's culture was to set good examples for the department.

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 - May 2020

- Assisted hundreds of students with introductory programming concepts in Python.
- Created [review videos](#) and study material for the students.
- Helped 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](#) (jQuery, AJAX, cgi, C++) 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.

>> Skills (non-comprehensive, in order of proficiency)

- **Languages:** Python, Java, Bash, JavaScript, C++, Groovy / Kotlin
- **Other technologies:** HTML, CSS, Gitlab pipelines, Feature Toggles / LaunchDarkly, Unit testing / mocking, Vim, Git, Kubernetes / Helm, SQL, Docker, Terraform / AWS, Functional programming, React
- **Also worked with:** Gradle, Django, JQuery, Prometheus, Google chat bots, Chrome Extensions, IntelliJ Plugins, Autodesk Inventor, LabVIEW

>> Projects

[This Resume](#)

February 2022

- I didn't have Microsoft Word anymore, so I wrote this in YAML and rendered it into the document you are reading. :-)

Capstone Research

Fall 2019 - Spring 2020

- Worked on a team to create an "automated advising assistant" (Django/React app) for UVA students.
- Would have helped students come up with a long-term course plan based on a weighted scheduling algorithm
- Sub-team: Full-Stack/Applications Team

[TA sorter](#)

Spring 2019

- Created a program to help us sort out TA office hours and lab preferences using Max Flow. (Code quality = just for fun...)

[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.