

# Sam Hollenbach

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## Education

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**Macalester College**, St. Paul, MN

*September 2015 - Present*

Physics (with astronomy emphasis), Computer Science

Varsity Baseball, NCAA Division III

Expected graduation: May 2019

## Technical Skills

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### General Purpose

- Python, Java, C, C++, Rust, R
- Git, AWS (*EC2, Lambda, RDS, Elastic Beanstalk*), Docker
- Mac OS X, Linux (*Ubuntu, Red Hat, Raspbian*), Windows (*7, 8, 10*)

### Web Development

- JavaScript, HTML/CSS, Python, MySQL, PHP
- [JavaScript] React, JQuery, AJAX, Chart.js [Python] Flask, Django, SQLAlchemy [CSS] Bootstrap, Sass

### Mobile Development

- React Native, Swift, Xcode

## Experience

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**Research Intern, Southwest Research Institute**, Boulder, CO

*Summer 2018*

In this NSF funded summer research position I worked on Python scripts for sunspot series reconstruction. I found new approaches to this problem by employing high level visualizations and tailored machine learning models.

- Python [SciKit-Learn, TensorFlow, matplotlib], Jupyter Notebook
- [github.com/samhollenbach/ADFSSN](https://github.com/samhollenbach/ADFSSN)

**Software Intern, University of California, San Francisco**

*Summer 2016, Summer 2017*

While working in the UCSF Department of Neurology I wrote numerous scripts and utilities that analyzed bioinformatic data. I focused heavily on script optimization and parallel processing implementation.

- Python [joblib], R (Shiny), Java
- [\[github.com/samhollenbach\]/KIRVCF](https://github.com/samhollenbach/KIRVCF), [/PING\\_gui](#), [/HML\\_Parser](#)

**Independent Project, Bullpen Tracker**

*September 2017 - Present*

A native iOS app and web interface for recording and evaluating pitching data for baseball teams.

- <http://bullpentracker.com> [[github.com/samhollenbach/BullpenTrackerServer](https://github.com/samhollenbach/BullpenTrackerServer)]
- Expected iOS App Store release January 2019 [[github.com/samhollenbach/BullpenTracker](https://github.com/samhollenbach/BullpenTracker)]

### Notable Past Projects

- Spiral galaxy N-body simulation and visualizer in Python [[github.com/samhollenbach/Galaxy2](https://github.com/samhollenbach/Galaxy2)]
- Mod creation for hit computer game Minecraft (2010 - age 13) amassing over 2,500 downloads

*References are available upon request.*