

Sander Schulhoff

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EDUCATION

University of Maryland, College Park

Bachelor of Science in Computer Science

Fall 2020 - Present

GPA: 3.8

RESEARCH

Andreou Lab

Summer 2021

Johns Hopkins University, Professor Andreas G. Andreou

- Built [data pipelines](#) to record data from Arduino chips and RealSense cameras and send it to Microsoft [\Psi](#)
- Implemented a successful CNN+LSTM model from scratch (with Pytorch) for video classification on event camera data.

Undergraduate Research

Fall 2020 – Present

University of Maryland, Professor Jordan Boyd-Graber

College Park, MD

- Worked on [Diplomacy](#) boardgame NLP project developing a Discord bot used to collect player data and display machine learning predictions
- Developed a [simple full-stack website](#) to collect data for a NLP analogy project
- Built an [annotation workflow](#) for the UMD [QANTA](#) project.

Neurodata Lab Summer Internship

Summer 2019

Johns Hopkins University, Professor Joshua Vogelstein

Baltimore, MD

- Wrote unit tests for a project converting clustering algorithm libraries written in R to Python
- Wrote scripts to create presentational graphs of algorithm performance on data sets like Iris
- Performed investigations on different clustering metrics where ground truth is known based on the Zachary's Karate Club social network graph dataset

PROJECTS

Teacher Recommender System | *Google Apps Scripts, HTML, MaterializeCSS*

Spring 2019 – Present

- Developed suite of scripts to automate the process of matching students with teachers who will write their college recommendation letters
- College counselors control the process from a menu with functions allowing them to create forms, send them, and run a simple scoring algorithm that generates assignments
- Students and teachers are served autogenerated Google Forms to collect their data
- Sold Alpha version and released Beta version as an official Google Sheet Add-On

Native Garden Website | *HTML, CSS, Javascript, PHP, Git*

Spring 2019

- Built a website for my highschool that allows users to browse information on the native plant gardens on campus
- Makes use of Google Sheets API and Curl search protocol to store data, read data, and automatically search and download images of plants
- Wrote custom search engine using Levenshtein word distances

Heart Heist App | *Swift, Objective-C*

Summer 2018

- Built and deployed a top down shooter app using XCode
- Used Gravit Designer and Garage Band to make art and music

TECHNICAL SKILLS

Languages: Python, Google Apps Script, Java, Javascript, HTML, CSS, PHP, MySQL, Bash, Objective-C, C++, C#

Developer Tools: Git, Eclipse, Adobe XD, IntelliJ IDEA, Pycharm, Visual Studio, VS Code, Atom, Jupyter Notebook, Google Colab, XCode, Photoshop, MAMP, SQLPro, Unity, PHPMyAdmin, Google Drive Scripting Environment, Platform IO

Natural Languages: English, Spanish (Conversational)

ACHIEVEMENTS

Won UMBC Hackathon 2020 (Cipher-Tech-Solutions challenge) with [ForeTrackR](#), a novel application of Blockchain to Chain of Custody in digital forensics

Won True Bit design competition (UMBC Hackathon)