

Christopher Baillie Olin

chris.baillie.olin@gmail.com | (202) 256-5810

5218 Marlyn Dr. | Bethesda, MD 20816

Education

University of Maryland

B.S., Mechanical Engineering and B.S., Computer Science

- President's Scholarship for Academic Achievement

College Park, MD

GPA: 3.98

Anticipated Dec. 2022

Skills

Languages: Python, Java, Ruby, Javascript, Typescript, C, C++, OCaml, Racket, R, MATLAB

Software: Solidworks, Autodesk Inventor, EES

Experience

Kroll Bond Rating Agency, Data Engineering Team

New York City, NY

Data Management Intern

June 2022 - present

- Modified a Flask API code generator to add authentication with Auth0 to generated APIs
- Created a user interface with Dash, allowing analysts to upload spreadsheets to run through a machine learning model and download results as another spreadsheet

University of Maryland, Digital Signal Processing Computer Aided Design Group

College Park, MD

Undergraduate Research Assistant

Sept. - Dec. 2021

- Debugged and translated a digital signal processing software tool from Java to C++
- Applied pre-trained computer vision models to drone footage and characterized the models' accuracy

Amazon, Prime Video Live Monitoring Team

Seattle, WA

Software Development Engineering Intern

June - Aug. 2021

- Built a video defect detector to monitor the quality of Amazon Prime Video live events in production
- Integrated the project with existing video monitoring tools built and maintained by other team members
- Demonstrated the impact of my project by presenting to managers of my team and adjacent teams

Agentis Air

Rockville, MD

Engineering Intern

Jan. - May 2021

- Developed a new test procedure to characterize an air purifier's change in performance over time
- Automated air purifier efficiency tests by modifying the test chamber and writing accompanying software
- Presented the results of tests on our product and competitors' to the marketing team and major investors

Army Research Lab, E/H-Field Sensing Team

Adelphi, MD

Software Development Engineering Intern

June - Aug. 2020

- Engineered a Wide Area Network to securely connect a web of Internet of Things power sensors
- Designed a secure web portal to access multiple sensors' individual configurations and data
- Summarized and explained my work to a panel of scientists and researchers unfamiliar with my team's work

Projects

Spotify Playlist Genre Analyzer - Data Science Final Project

Python

- Collected and visualized genre data about all songs in a Spotify playlist, using Spotify's API and matplotlib
- Analyzed the gathered data, with the goal of scoring a playlist based on the similarity of its songs' genres
- Displayed results of this study in a webpage (available at <https://olinb.github.io/spotify-playlist-analysis/>)

Sound Discretizer - Mechatronics Design Project

Arduino

- Constructed and wired a device that listens to its environment and plays back the closest tune, discretized to notes in the A440 12-note scale, in a housing that included a microphone, analog noise filters, and aux. output
- Programmed the internal Arduino, utilizing a Fast Hartley Transform to detect musical pitches
- Recorded a short video to present my project virtually

Interests

Clubs: Rock Climbing (member; former president, 2020), Ultimate Frisbee (member)

Personal: Mountain Biking, Road Cycling, Kayaking (former whitewater kayaking instructor, 2017-2019)