# Logan Donaldson

ldonald3@jhu.edu | Personal Website: https://www.logandonaldson.com/

## EDUCATION

**Johns Hopkins University** Baltimore, MD
Bachelor of Science, Applied Mathematics and Statistics (GPA 3.96) May 2022
Master of Science in Engineering, Data Science Expected May 2023

**Honors:** Intuitive Surgical Best Deep Learning Project Award, Applied Mathematics & Statistics Achievement Award, Naddor Prize (for significant achievement in applied math related academic and extracurricular activities), 2020-2022 Albert and Elaine Slechter Scholarship for Engineering Undergraduates at the Johns Hopkins University

**Relevant Courses:** Deep Learning, Machine Learning, Intro to Data Science, Applied Statistics & Data Analysis, Intermediate Programming (C++), Data Structures (Java), Statistics, Probability, Optimization I, Optimization II, Linear Algebra, Game Theory, Calculus I-III

## TECHNICAL SKILLS

**Primary Skills:** Python (PyTorch, scikit-learn, NumPy, pandas), Deep Learning, Computer Vision, Git
**Also Used**: C/C++, Java, Web Development (JavaScript, React, MongoDB), MATLAB, R, SQLite

## RELEVANT WORK EXPERIENCE

**Amazon Web Services** Arlington, Virginia
Software Development Engineer Intern May 2022 - August 2022

**Johns Hopkins University** Baltimore, MD
Introduction to Optimization Teaching Assistant August 2020 - July 2021
Applied Statistics and Data Analysis Teaching Assistant August 2021 - December 2021
Introduction to Statistics Teaching Assistant January 2022 - May 2022

- Teach weekly discussion section for ~15 students and hold office hours
- Coordinate with other teaching assistants to form a rubric and grade exams/homework

**Johns Hopkins University** Baltimore, MD
MiLB Scheduling Intern (see personal website for more info) June 2020 - August 2020

- Modeled and produced multiple 2021 minor league baseball schedules in terms of integer linear optimization programs using MATLAB and Gurobi; models consisted of ~13,000 variables/ ~10,000 constraints and were solved via a SGI UV 2000 supercomputer running Linux
- Corresponded with Southern League president to understand desired parameters and constraints
- Created 2021 umpire crew schedules used by the Triple-A West League and Appalachian League

## RESEARCH EXPERIENCE

**Johns Hopkins Sports Analytics Research Group** Baltimore, MD
Student Researcher (see personal website for more info) September 2020 - Present

- Collaborated with the Baltimore Ravens analytics team on linear regression models to predict length of NFL punt returns using a proprietary play-by-play data set with ~130,000 entries
- Collaborated with Baltimore Orioles to fit probability distributions to player-specific batted ball data for simulation