# Evan Glas

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## EDUCATION

### DUKE UNIVERSITY
Bachelor of Engineering
2020-2023 | Durham, NC
Majors in Electrical & Computer Engineering, Computer Science • Concentration in ML
GPA: 3.8 / 4.0

### PEDDIE SCHOOL
HS Diploma
2016 - 2020 | Hightstown, NJ
**Armellino Scholar:** Awarded Full Merit Scholarship Covering 4 Years Tuition, Room, and Board
**Honors:** National Merit Scholar • US Computing Olympiad Silver Division • Academic All-Mid Atlantic Prep League • Cum Laude Society • Three-Sport Varsity Athlete • National AP Scholar
GPA 4.0 / 4.0
SAT: 1570/1600

## COURSEWORK

### UNDERGRADUATE
Applied Probability for Statistical Learning • Elements of Machine Learning • Data Structures and Algorithms • Advanced Linear Algebra • Advanced Multivariable Calculus • Signals and Systems • Computer Architecture Intro to • Economics • Probability • Differential Equations

### HIGH SCHOOL
Calculus-Based Statistics • AP Statistics • AP Physics E & M • Intro to Data Science • 9 Additional AP Courses

## SKILLS

**Programming Languages**
Python • SQL • Java • C++ • JavaScript • HTML • CSS • C • Matlab • MIPS
**Libraries**
Pandas • Pytorch • Matplotlib • Sci-kit Learn • SciPy • NumPy • React JS
**Software**
Git • Tableau • MySQL • LaTeX • Altium
**Other**
FL Studio • Intermediate Spanish Proficiency • Belay Certified
**Interests**
Violin • Lacrosse • Piano • Fitness • Guitar • Running • Music Production

## WORK EXPERIENCE

### DUKE IMPACT INVESTING GROUP | Data Analyst
Jan 2021 - Present | Durham, NC
- Work in teams of four to provide data analysis for a socially impactful startups
- Worked with Root Causes, a nonprofit fighting food insecurity, to help draw insights from client data (F21). Delivered final presentation to President, VP of Operations, and other employees
- Conducted data analysis for Villa, a California-based housing startup (S21).Provided feedback on marketing and customer acquisitions strategies across several presentations to company employees.
- Used various statistical methods and data visualization techniques across multiple Python libraries.

### DUKE BRAIN TOOL LAB | Undergraduate Researcher
March 2021 - Present | Durham, NC
- Member of Brain Tool Lab, a research group studying neurosurgical robotics.
- Currently working on robot that autonomously classifies and resects brain tumors using a high-intensity laser.

### DUKE BIOINJURY MECHANICS LAB | Undergrad Researcher
Aug 2021 - Present | Durham, NC
- Member of interdisciplinary research group facilitated by selective Duke Bass Connections program.
- Currently researching the use of ML to diagnose/understand concussions in youth football players through eye tracking data.

### UPENN DYNAMIC AUTONOMY & INTELLIGENT ROBOTICS LAB | Summer Research Intern
May 2019 - August 2019 | Philadelphia, PA
- Internship at UPenn DAIR Lab, a robotic control theory research group
- Streamlined experimentation process (data collection, processing, and visualization) to test a quasi-static robotic control framework.
- Used Google Drive API to automatically update and retrieve experimental data.
- Wrote Python program to determine robot end-effector location via data from camera array.

## PROJECTS

### SPOKEN DIGIT CLASSIFICATION | Slides, Github
Fall 21
Implemented maximum likelihood models to classify spoken Arabic digits. Conducted feature engineering and trained K-Means and Gaussian Mixture models. Correctly identified 96% of test samples. Submitted as project for Statistical Learning class.

### HOUSING PRICE PREDICTION | Github
Winter 21
Implemented a random forest and XGBoost model to predict housing prices using the Ames Housing Dataset. Completed data cleaning, feature engineering, model tuning to achieve top 10% of submitted work on Kaggle competition.

### PERSONAL WEBSITE | Website, Github
Summer 21
Built and designed personal website using HTML, CSS, and JavaScript. See **Projects** for additional examples of my work, including a **Pong Game** built with JS and HTML Canvas, as well as **MoreMusic**, a website built using JS React for HackDuke21.