

# Evan Glas

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## EDUCATION

### DUKE UNIVERSITY

#### MASTER OF SCIENCE

2023-2024 | Durham, NC

**Program:** MS in Electrical and Computer Engineering

**Concentration:** Data Analytics and Machine Learning

#### BACHELOR OF ENGINEERING

2020-2023 | Durham, NC

**Majors:** Electrical and Computer Engineering, Computer Science

**Minor:** Mathematics

**Involvement:** Duke Applied Machine Learning (DAML), HackDuke

**Honors:** Dean's List with Distinction  
GPA: 3.91 / 4.0

### PEDDIE SCHOOL

#### HS DIPLOMA

2016 - 2020 | Hightstown, NJ

**Armellino Scholar:** Awarded Full Merit Scholarship

**Honors:** National Merit Scholar • US Computing Olympiad Silver Division • Academic All-Mid Atlantic Prep League • Three-Sport Varsity Athlete  
GPA: 4.0 / 4.0 • SAT: 1570/1600

## COURSEWORK

Software Engineering • Algorithms • Parallel Programming • Operating Systems • Computer Architecture • Network Architecture • Data Structures • Deep Learning • Natural Language Processing • SQL Querying and Analysis • Information Theory • Applied Probability for Statistical Learning • Machine Learning • Linear Algebra • Multivariable Calculus • Probability • Differential Equations

## SKILLS

#### Programming Languages

Python • Java • C++ • C • SQL • Q • JavaScript • TypeScript • HTML • CSS

#### Libraries

Pandas • Pytorch • Matplotlib • Sci-kit Learn • SciPy • NumPy • React

#### Software

Git • Linux • Tableau • FL Studio

#### Interests

Violin • Lacrosse • Poker • Fitness • Piano • Chess • Music Production

## EXPERIENCE

### RBC CAPITAL MARKETS | QUANTITATIVE STRATEGIES GROUP INTERN

June 2023 - August 2023 | New York, NY

- Rotations in quantitative research and domestic, international ETF market making
- Built customizable simulation to evaluate market making strategy performance
- Researched improvement to portfolio risk model by using a dimensionality reduction technique to better describe variability in stock returns
- Technologies used: **Python, Q, Pandas, Scikit-Learn, Matplotlib**

### BNY MELLON | DATA SCIENCE INTERN

June 2022 - August 2022 | New York, NY

- Researched interpretable machine learning algorithms for feature selection for business segment forecasting models (CCAR Team)
- Built dashboard that reduced time to configure various financial models by 75%
- Technologies used: **Python, Pandas, Jupyter Widgets, Scikit-Learn, Matplotlib**

### HACKDUKE | TECH TEAM LEAD

January 2022 - May 2023 | Durham, NC

- Led 12-person development team of [HackDuke](#) and [Code for Good](#) websites.
- Collaborated with UI/UX design team to maximize site usability and function
- Technologies used: **JavaScript, HTML, CSS, React JS, Bulma**

### DUKE INJURY BIOMECHANICS LAB | INDEPENDENT STUDY

March 2021 - December 2022 | Durham, NC

- Designed and built [circuit to track eye movement](#) via EOG electrode headset
- Researched signal-processing techniques for eye-tracking data
- Technologies used: **MATLAB, Altium**

### UPENN DAIR LAB | SUMMER RESEARCH INTERN

May 2019 - August 2019 | Philadelphia, PA

- Internship at UPenn Dynamic Autonomy & Intelligent Robotics Lab
- Streamlined data collection, processing, visualization through C++, Python scripts.
- Wrote program to determine robot location via data from camera array.
- Technologies used: **C++, Python, Matplotlib, Google Drive API**

## PROJECTS

### AI-ENABLED GEOGUESSR CLONE | [DEMO](#), [GITHUB](#), [REPORT](#)

React, JavaScript, Tailwind CSS, Google Maps API

Built a GeoGuessr clone with a computer vision AI opponent as part of ECE 487 class team project. Personally responsible for most of game logic and front-end.

### RISC GAME | [DEMO](#), [GITLAB](#)

Java, JavaFX, Gradle, Scene Builder

Built a Risk-like game as part of ECE 651 class team project. Features include live multiplayer via remote server, in-game chat, JavaFX UI, CI/CD pipeline

### CS 671 CLASS KAGGLE COMPETITION | [WRITEUP](#), [GITHUB](#)

Python, Pandas, Scikit-Learn, Matplotlib

Built predictive model, conducted analysis on employee attrition dataset. Placed 6/145 for accuracy on [public leaderboard](#) in graduate machine learning class.

### CLUSTERING VISUALIZER | [WEBSITE](#), [GITHUB](#)

JavaScript, HTML, CSS, Paper.js Vector Graphics Library

Built an interactive K-Means and DBSCAN clustering algorithm visualizer.