

# Brennan Graham

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## Professional Summary:

Senior undergraduate student with experience in computer programming (C++, C#, Python), economics, data analysis (Matlab, R, Tableau), machine learning, open source intelligence, AWS, modeling, and simulation.

## Education:

University of Kentucky (Lexington, KY)

Expected graduation May 2024

### **Bachelor of Science in Computer Science and Economics, Minor in Mathematics**

- Lewis Honors College student (Cumulative GPA: 3.9)
- University of Kentucky Singletary Scholar
- National Merit Scholarship Finalist

## Work Experience:

### **Software Engineering Intern, MITRE Corporation**

October 2022 – Present

- Built modeling and simulation tools to analyze the performance of sensor systems and inform design, acquisition, and operational concepts for a US Government sponsor.
- Conducted performance analysis to support the acquisition and employment of air and missile defense systems for a foreign partner of the US Government.
- Designed scenarios in a synthetic environment generator to support the development, testing, and evaluation of advanced aircraft for the US Government.

### **Teaching Assistant, UK Department of Economics (Part Time)**

August 2022 – Present

- Assisted with exam creation and other administrative tasks for the Economics and Business Statistics (ECO 391) course, which is a graduation requirement for all business and economics majors at UK.

### **Technical Operations Intern, Federal Reserve Bank of Chicago**

June 2022 – August 2022

- Built proof-of-concept AWS systems for the FedLine Services Technical Operations team, which provides interbank transfer services to more than 100,000 users in nearly 10,000 organizations.
- Wrote and updated documentation for automated monitoring systems.
- Engaged with a project which surveyed the intern population to identify the program's strengths and weaknesses to inform policy recommendations, earning 1<sup>st</sup> place in the intern project competition.

### **Cybersecurity Intern, Kentucky Office of Homeland Security (Part Time)**

August 2021 – May 2022

- Generated a weekly open-source cyber threat intelligence product that was distributed to 450+ law enforcement and critical infrastructure organizations.
- Produced threat intelligence analysis focused on critical financial services infrastructure.
- Supported a surveillance detection for bombing prevention course conducted by the Department of Homeland Security Cybersecurity and Infrastructure Security Agency, Office of Bombing Prevention.

### **Computer Science Intern, US Air Force 402<sup>nd</sup> Software Engineering Group**

June 2021 – July 2021

- Built and modified applications in C# to automate routine tasks and increase efficiency.
- Worked in C++ on the early stages of developing a simulation for software testing and evaluation for the Combat Rescue Helicopter.
- Gained a secret security clearance.

### **Research Assistant, UK Department of Computer Science (Part Time)**

January 2021 – May 2021

- Aided in the computational analysis of bioinformatic data as part of a National Science Foundation funded project seeking to predict gene expression in an invasive fungus.

## Involvement:

Member of the UK Economics Society

August 2020 – Present

Vice President of the UK Economics Society

August 2022 – May 2023

UK Economics Society Executive Board Member/EconGames Liaison

August 2021 – May 2022

Member of Tau Beta Pi (Engineering Honor Society)

November 2021 – Present

## Conferences:

**Session Chair**, Federal Reserve Bank of Cleveland Economic Scholars Program

May 2022

**Peer Review Board**, Federal Reserve Bank of Dallas Economic Scholars Program

April 2022 – October 2022