

# James Brennan

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## Education

**University of Pittsburgh: School of Computing and Information**, 3.5 GPA August 2017 – April 2021  
Major: Computational Biology (BS)      Minors: Computer Science, Applied Statistics, Neuroscience

## Work Experience

**DataDock Solutions**, New York, NY

Software Engineer

September 2020 – Present

- Completed backend bug fixes and general improvements using **Git**, **YouTrack**, and **Upsource** ticketing systems in an agile development context
- Created front-facing API endpoint for data access in **Python** using Tornado

**Morrison Lab**, Pittsburgh, PA

Undergraduate Research Assistant

January 2019 – April 2021

- Utilized optogenetic stimulation, electrophysiological recording, pharmacological interventions, and brain slicing/staining in decision-making research (mainly regarding substance use and gambling disorders)
- Presented research “*Sign Tracking is Predictive of Suboptimal Behavior in a Rodent Gambling Task*” at the Society for Neuroscience’s 2019 annual conference

**UPMC Children’s Hospital**, Pittsburgh, PA

Summer Research Intern

June 2019 – July 2019

- Analyzed, organized, and performed quality control on fundus image dataset using **Python**
- Presented research project “*Analysis of Deep Learning Predictions for AMD Progression Classification*”

**LIFE Lab**, Pittsburgh, PA

Undergraduate Research Assistant

October 2017 – May 2019

- Created interface to allow users to select brain regions, metrics, statistical tests, and output format for analysis of MRI data using **Python** to better understand correlations between early life stress and decision making in adulthood
- Redesigned attention assessment to improve user-friendliness and added online capabilities using **JavaScript** and **HTML**

## Skills

**Familiar Languages:** Python, JAVA, R, SQL, MATLAB, Visual Basic, JavaScript, MIPS Assembly

**Other proficiencies:** Git, Visual Studio, NumPy, Pandas, Matplotlib, Microsoft Office, Minitab

## Relevant Coursework

- Algorithm Implementation/Data Structures
- Applied Time Series Analysis
- Introduction to Data Science
- Applied Regression Analysis
- Statistical Learning and Data Science
- Linear Algebra and Matrices

## Extracurricular Experience

**National Alliance on Mental Illness: Pitt Chapter**, Pittsburgh, PA

Secretary

January 2019 – May 2021

April 2019 – September 2020

- Planned and organized awareness/fundraising events with other board members
- Managed email communications with other organizations and individuals

**University of Pittsburgh Neuroscience Club**, Pittsburgh, PA

September 2017 – May 2021

## Awards and Distinctions

**Fourth Place**, IBM BlueHack

October 2019

**Eagle Scout**, Boy Scouts of America

August 2017

**National AP Scholar**, The College Board

July 2017