

# Bradley Hsu

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## Education

### Washington University in St. Louis

St Louis, MO

B.S. IN COMPUTER SCIENCE AND MATH (PROJECTED)

- GPA: 3.92. Dean's List.
- Relevant Coursework: Data Structures and Algorithms, Data Science, Intro to AI, Management, Linear Algebra, Vector Calculus, Systems Software, Human-in-the-loop Computation

**Saratoga High School - National Merit Finalist. Very High Honors.**

## Work Experience

### MLSoundScape

August 2021 - Current

SOFTWARE DEVELOPER

St. Louis, MO

- Working on machine learning based telehealth system used to diagnose hearing loss in South Africa
- Building front-end in HTML/CSS/JavaScript; Debugging back-end machine learning models in Matlab, Python and C#

### Washington University in St. Louis

August 2021 - Current

TEACHING ASSISTANT FOR CSE 217

St. Louis, MO

- Teaching Assistant under Professor Marion Neumann for Intro to Data Science class.
- Leading 10 person lab groups through Python-based Data Science labs, hosting office hours and assisting with grading.

### Washington University in St. Louis

August 2021 - Current

RESEARCH ASSISTANT

St. Louis, MO

- Conducting research with PhD candidate Zihao Deng under Professor Brendan Juba in Natural Language Processing
- Working on task related to semantic role labeling

## Projects

### Eco2Go Tracker – Winner at Hacktech 2021

REACT, JAVASCRIPT, GOOGLE CLOUD PRODUCTS

- Selected as winning hack at Caltech's Hacktech 2021; Implemented tracker for university Eco2Go recycling program
- Built facial recognition component with React, tensorflow.js wrapper, and Firebase Cloud Storage integration
- Built dynamically updating React web app with Google Cloud Firestore integration

### WashU Course Chat Linker

REACT, NODE.JS, AMAZON WEB SERVICES, EXPRESS.JS, MONGODB, DOCKER

- Co-built website for students to find and upload links to class groupchats. Used by 300+ people/more than 1/5th of my WashU class
- Deployed app on AWS with Docker; built Node.js backend for MongoDB database; built Express.js endpoints; designed React frontend

### Domain General Attention Classifier

PYTHON, NUMPY, PANDAS, KERAS/TENSORFLOW

- As Software Lead for WashU Neurotech, built detector for human attention based on EEG brainwave data.
- Wrote signal processing and data pipeline scripts in Python, NumPy, and Pandas; Implemented various ML algorithms in Keras/Tensorflow.

### BlockIt APK

KOTLIN, MOZILLA-MOBILE/FENIX

- To improve personal productivity, forked Mozilla's fenix Android browser to generate APK hardcoded to block user specified websites.

## Activities/Leadership

### WashU Neurotech

August 2020 – Current

CO-PRESIDENT; SOFTWARE LEAD

- Responsible for meeting organization and planning out development timelines; Led development of machine learning models.

### Saratoga High School Science Olympiad

2016-2020

FOUNDER, PRESIDENT

- Led team of 30 people; coordinated and led members in 23 different events; founded educational summer camp to raise \$5000 budget.

## Skills

<b>Languages</b>	Java, Python, HTML/CSS, JavaScript, TypeScript, C++, C#, Matlab, Kotlin
<b>Libraries/Frameworks</b>	NumPy, Pandas, Sklearn, Keras/Tensorflow, Pytorch, React, Node.js, Express.js
<b>Tools</b>	MongoDB, Google Cloud Platform, AWS, Docker