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, Visual Screen Design

Saratoga High School - National Merit Finalist; Very High Honors

Work Experience

Bonauria   *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

Juba Lab - Washington University in St. Louis   *August 2021 - Current*

RESEARCH ASSISTANT   *St. Louis, MO*

- Conducting research with PhD candidate under Professor in Natural Language Processing
- Working on semantic role labeling, making algorithms that understand how words in sentences relate to each other

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

- Forked Mozilla's fenix Android browser to generate APK hardcoded to block user specified websites to improve personal productivity

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

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