

# Bradley Hsu

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## Education

### Washington University in St. Louis

St Louis, MO

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

Expected Graduation: May 2024

- GPA: 3.76; 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, Statistics, Real Analysis, Machine Learning

### Saratoga High School - National Merit Finalist; Very High Honors

## Work Experience

### Amazon

June 2022 - August 2022

SOFTWARE ENGINEER INTERN

Bay Area, CA

- Member of Amazon Alexa Shopping pFase team, focusing on providing personalized shopping experiences through Amazon Alexa
- Reconfigured cache of external API called on every call of core backend service
- Designed and implemented service to update cache on source of truth updating, ensuring consistent customer experience
- Built service to scale to 1000 requests per second; service currently in production handling more than 10 million monthly requests
- Increased effective cache hit rate from less than 5% to 50%; as a result, decreased latency of team's core API service by 10%
- Technologies used: AWS (Lambda, SQS, ElastiCache, EC2, Cloudformation, etc...), Java, Python

### Washington University in St. Louis

August 2022 - Current

TEACHING ASSISTANT FOR CSE 527A NATURAL LANGUAGE PROCESSING

St. Louis, MO

- Helping to design first iteration of graduate level NLP class under Professor Chenguang Wang
- Writing lecture slides and homework assignments, hosting office hours, advising research projects, grading

### Bonauria

August 2021 - June 2022

SOFTWARE DEVELOPER

St. Louis, MO

- Built and maintained machine learning based telehealth system used to diagnose hearing loss in South Africa
- Technologies used: ASP.NET Core, Matlab, Python and C#

### Juba Lab - Washington University in St. Louis

August 2021 - Current

RESEARCH ASSISTANT

St. Louis, MO

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

## Projects

### HackWashU Website and Applications Management System

VUE.JS, JAVASCRIPT, GITHUB ACTIONS, DOCKER, AZURE, DJANGO, GOOGLE ANALYTICS, FIGMA

- Led crossfunctional team to design and build website and application system for HackWashU hackathon
- Website currently serving 10k+ visitors per month; Application system handling about 1000 applications

### Eco2Go Tracker - Winner at Hacktech 2021

REACT, JAVASCRIPT, TENSORFLOW.JS, GOOGLE CLOUD PRODUCTS

- Selected as winning hack at Caltech's Hacktech 2021; Created tracker for university Eco2Go recycling program

## Activities/Leadership

### Hack WashU

January 2022 - Current

CO-FOUNDER; EXEC; DIRECTOR OF TECHNOLOGY

- Working with crossfunctional team to plan hackathon with \$60k+ budget and 250+ projected attendees
- Owner of hackathon tech infrastructure; Led development team to create hackathon website and hackathon application process

### WashU ACM Machine Learning Interest Group

May 2022 - Current

CHAIR

- Leading group through Stanford's CS224n NLP class; secured funding for high performance GPUs to enable student research

## Skills

**Languages** Java, Python, HTML/CSS, JavaScript, TypeScript, C++, C#, Matlab, Kotlin, Rust

**Libraries/Frameworks** NumPy, Pandas, Sklearn, Keras/Tensorflow, Pytorch, React, Node.js, Express.js, Vue.js

**Tools** MongoDB, Google Cloud Platform, AWS, Docker, Github Actions