

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 GRADUATE LEVEL CS CLASSES

St. Louis, MO

- Helped design and head TA first iteration of graduate level class on Natural Language Programming (CS 527A) under Professor Chenguang Wang and first iteration of graduate level class on formal methods for verifying autonomy (CS 537T) under Professor Hussein Sibai
- Writing lecture slides and homework assignments, hosting office hours, advising research projects, grading

Sibai Lab - Washington University in St. Louis

January 2023 - Current

RESEARCH ASSISTANT

St. Louis, MO

- Conducting research directly with Professor Hussein Sibai
- Working on formal verification for robustness guarantees in neural nets in multiagent planning algorithms

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#

Selected 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 served 10k+ visitors per month; Application system handled 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; CO-PRESIDENT

- Co-founded crossfunctional team to plan yearly hackathon with \$60k+ budget and 250+ attendees; first iteration ran October 2022
- Connected sponsors with WashU undergrad talent; Helped many of my classmates get internships
- Owned hackathon tech infrastructure; Led development + design team to create hackathon website and hackathon application system

WashU ACM Machine Learning Interest Group

May 2022 - Current

CHAIR

- Collaborating with Professor Nathan Jacobs to build student ML interest group; leading paper readings and facilitating student research.

Skills

Languages Java, Python, HTML/CSS, JavaScript, TypeScript, C++, 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