Arthur Liu

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Education

University of Washington, Seattle, WA   Sept 2021–June 2022
M.S. Computer Science

University of Washington, Seattle, WA, GPA: 4.0   Sept 2018–June 2021
B.S. Computer Science, Entrepreneurship Minor
Selected Coursework: Distributed Systems, ML, Deep Learning, Networks, Databases, Algorithms, Systems

Work Experience

Co-Founder & CTO, VerbalEyes, Seattle   January 2021-Present
- · VerbalEyes is an AI technology company that is innovating in the audio description space. Our mission is to make the world's digital video content accessible for all people.
- · Working closely with Madrona Venture Labs as the sole winner of their Summer 2021 fellowship

Software Engineering Intern, Microsoft, Redmond   June 2021-Sept 2021
- · Working in Azure organization to design and implement a new static analysis feature to serve and rank fix recommendations for all developers in Windows OS and Azure

Research Assistant, University of Washington, Seattle   Oct 2020–December 2020
- · Utilized natural language processing (NLP) to study very large text corpora and investigate reciprocity behavior in fanfic community. https://tinyurl.com/artliu-reciprocity

Software Engineering Intern, Amazon, Seattle   June 2020–Sept 2020
- · Developed with full ownership a tool deployed across 300 Amazon Go Stores, saving approximately $1K labor annually per store or $300,000 at current store count
- · Worked on full-stack with Java backend APIs, TypeScript frontend, and comprehensive code coverage

Research Fellow, Giving Tech Labs, Seattle   Sept 2019–June 2020
- · Conducted experiments including emotion differentiation via derived acoustic speech features
- · Trained models to extract grant information from crawled web urls

Head Section TA, University of Washington, Seattle   Jan 2019–Present
- · On leadership team to redesign the CSE 143 curriculum (CS2 in Java), specifically creating section materials, developing teaching strategies, and facilitating TA staff meetings
- · Teaching a class of 20 students twice a week to strengthen fundamental programming concepts in Java

Publications

1. Y. Li, A. Miller, **A. Liu**, K. Coburn, L. Salazar, Acoustic Measures for Real-Time Voice Coaching – Real-Time Voice Coach with 100% user privacy. In *Proceedings of the 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD '20)*, 2020

Leadership & Other Experiences

Curator, TedX University of Washington   Oct 2019-June 2021
- · Directed TEDxUofW club and launched 2021 event. Worked prior as web lead on full-stack web development

Radiology Researcher, University of Washington   Oct 2020-January 2021
- · Deployed and built scalable website to conduct radiology experiments for comparing denoising techniques.

Computer Vision Team, Advanced Robotics University of Washington   Oct 2019-June 2020
- · Developed programs to improve missile guidance and prediction for RoboMaster competition

Orange Juice Hologram, Winner @ Hack'20, devpost.com/software/orange-juice-hologram-jy5qr1 Aug 2020

Languages: Java (Proficient), Python, C#, C, C++, JavaScript, TypeScript, SQL, HTML, CSS
Other Interests: Soccer, Piano, Guitar, Unicyling, DIY Electric Skateboard, Beach