Arthur Liu

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Education

University of Washington, Seattle, WA, GPA: 3.96 — 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, Summa Cum Laude

Work Experience

Lecturer, University of Washington, Seattle — Jun 2022-Sept 2022
- Instructed data structures and parallelism course with 50+ students.
- courses.cs.washington.edu/courses/cse332/22su

CSE332 TA, University of Washington, Seattle — Sept 2021–Jun 2022
- Led staff meetings and developed new content material for exercises and exams
- Taught a class of 25 students to further practice and understand new data structures and parallel algorithms

Co-Founder & CTO, VerbalEyes, Seattle — Jan 2021–Jan 2022
- VerbalEyes is an AI technology company that is innovating in the audio description space
- Worked closely with Madrona Venture Labs as the sole winner of their Summer 2021 fellowship
- Designed architecture and deployment on AWS services to run audio description computation pipelines

Software Engineering Intern, Microsoft, Redmond — June 2021–Sept 2021
- Designed and deployed a new static analysis feature to automatically serve and use data analysis to rank fix recommendations for all developers in Windows OS and Azure

CSE143 Head Section TA, University of Washington, Seattle — Jan 2019–Jun 2021
- Part of leadership team to redesign the CSE 143 curriculum (CS2 in Java), specifically helped create section materials, develop teaching strategies, and facilitate TA staff meetings
- Taught a class of 20 students twice a week to strengthen fundamental programming concepts in Java

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
- Key contributor for voice-analysis paper in KDD 2020, *Acoustic Measures for Real-Time Voice Coaching*
- Conducted experiments including emotion differentiation via derived acoustic speech features
- Trained models to extract grant information from crawled web urls

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.
- Findings published in American Journal of Roentgenology.

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

Languages: Java (Proficient), Python (Proficient), C#, C++, C, JavaScript, TypeScript, SQL, HTML/CSS