

Andrew Wei

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Programming Languages

- Python, 3yr
- Java, 4yr
- C/C++, 1yr
- C#, 3mo
- JavaScript, 3mo
- TypeScript, 3mo

Hardware Description Lang.

- System Verilog, 1yr
- Verilog, 3mo

Technology/Frameworks

MySQL, SQL++, PostgreSQL,
Spark, Datalog, PyTorch,
Pandas, AWS, Unity, CUDA,
Elasticsearch, Logstash,
Kibana, Flask, Kafka,
Zookeeper, Selenium,
BeautifulSoup4, HTML/CSS,
Android Studio

VC & Deployment Tools

git, Docker, Kubernetes

Hardware

FPGA, soldering

Operating Systems

Windows, Linux, MacOS

Human Languages

English - Proficient
Chinese - Basic
ASL - Basic

Interests

- Distributed Systems
- Deep/Machine Learning
- Algorithms
- Tech for Good

Hobbies

Food, volunteering,
reading, writing,
learning, teaching

Education

🎓 **University of Washington, Seattle** 2017 - 2021
MS in **Computer Science & Engineering** - 3.92 GPA 06/2021
BS in **Computer Engineering** - Cum Laude, Dean's List 06/2019

Experience

🏢 **Microsoft** 06/2021 - 09/2021
Seattle, WA
Research Intern - *Data Engineering for Xbox Finance & Marketing*

- Develop SSIS data pipeline to crosswalk Xbox Game Pass product usage, cost, and revenue data existing across numerous teams
- Integrating SQL Server data and PowerAutomate flows in a PowerApp dashboard to assist in evaluating title performance

🎓 **Paul G. Allen School of Computer Science & Engineering** 03/2018 - 06/2021
Seattle, WA
Graduate Teaching Assistant

- Led sections of ~30 students and taught concepts within Distributed Systems, Machine Learning (for Big Data), Statistics for CS, Databases, and Intro to Data Science courses
- 4.6/5.0 average section rating

🏠 **Amazon** 06/2020 - 09/2020
Seattle, WA
SDE Intern - *Improved Search Experience*

- Improved and added features to a promotions management tool using TypeScript and React Redux
- Investigated search latency issues, fix lowered latency from ~45s to ~2s and reduced search payload size by 4-10000x

Letron Entertainment Tech 06/2019 - 09/2019
Kaohsiung, Taiwan
Intern - *Website health monitoring*

- Implemented monitoring agent for RTMP using Kafka, Zookeeper, Docker, Elasticsearch, Logstash, and Kibana
- Created an API to remotely access networking tools using Flask

Projects

VR Capstone: ChatAssist - Unity, C#, Amazon Transcribe
An Augmented Reality app on the MagicLeap that transcribes and translates speech in real time for those who are hard of hearing or new to a language

Stockbot - Selenium, BeautifulSoup4, PyTorch
Created a Twitter scraper to scrape 2m+ tweets related to companies over the last 10 years, which were used in a sentiment analysis model paired with historical stock prices for stock price prediction

Service Mesh Overhead Measurement - Kubernetes, Istio
Investigated performance, network, and memory overhead of service meshes on different microservice architectures by using metrics from Prometheus and network packet inspection locally and on AWS EKS

Awards

Bob Bandes Teaching Award 2021
Dubhacks 2017 - Accessible Design Winner 2017
President's Volunteer Service Award - Gold 2016