

Andrew Wei

Software Engineer

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Experience

- » **Sunrun** - AI&ML - Automation Team Seattle, WA
 - > **Staff Software Engineer** 01/2024 - present
 - Working with internal business stakeholders to scope out and build out projects to automate previously manual processes and adapt code to changing business requirements
 - Write and review Python/TypeScript code for services that interacted with various OCR engines, OpenAI, Salesforce CRM, and Snowflake
 - Refactored projects and proposed process changes to make the code more testable, easier to debug, and to allow us to reproduce errors encountered in production
- » **OctoML** - Platform/Cloud Seattle, WA
 - > **Senior Software Engineer** - Model Hosting Service 04/2023 - 01/2024
 - Helped set up local dev environments for services with Tilt; Improved dev QoL by making local env builds faster for faster iteration
 - Write and review Go/Python code and Kubernetes configs for services; Discuss product requirements to clarify intent to design, propose, and implement product features/services; Debug things that Go wrong
 - Worked with auth, billing, and telemetry service providers and integrated those services into the platform
 - > **Software Engineer** - Model Acceleration Service 10/2021 - 04/2023
 - Designed, wrote, reviewed, and shipped Rust, Python, Protobufs, SQL, and Kubernetes configs for internal use and cost analysis
 - Wrote code to integrate, test, and internally validate the tuning results of different machine learning models and frameworks
 - Wrote documentation for tutorials and new features
- » **Microsoft** - Office of the Chief Economist Seattle, WA
 - > **Research Intern** - Data Eng. for Xbox Fin. 06/2021 - 09/2021
 - Develop SSIS data pipeline to crosswalk Xbox Game Pass product usage, cost, and revenue data coming from multiple teams
 - Integrating SQL Server data and PowerAutomate flows in a PowerApp dashboard to assist in evaluating game title performance
- » **Paul G. Allen School of Computer Science & Engineering** Seattle, WA
 - > **Graduate Teaching Assistant** 03/2018 - 06/2021
 - Led sections of ~25 students and held office hours, teaching ideas and concepts in Distributed Systems, Machine Learning (for Big Data), Databases, Statistics for CS, and Intro to Data Science courses
 - 4.6/5.0 average section rating
- » **Amazon** - Amazon Devices Seattle, WA
 - > **SDE Intern** - Improved Search Experience 06/2020 - 09/2020
 - Improved and added features to a promotions management tool using Java, TypeScript and React Redux
 - Investigated search latency issues, the fix lowered latency from ~45s to ~2s by reducing search payload size by 4-10000x

» LeTron Entertainment Tech

Kaohsiung, Taiwan

> Intern - Website Health Monitoring

06/2019 - 09/2019

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

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

Awards

Bob Bandes Teaching Award

2021

Dubhacks - Accessible Design Winner

2017

President's Volunteer Service Award - Gold

2016

Programming Languages

- [6yr] Python
- [5yr] Java
- [1yr] Rust, C/C++, Go
- [6mo] Java/TypeScript
- [3mo] C#

Hardware Description Lang.

- [1yr] System Verilog
- [3mo] Verilog

Technologies/Frameworks

MySQL, SQL++, PostgreSQL, BigQuery, Spark, Datalog, PyTorch, Pandas, AWS, Unity, CUDA, Elasticsearch, Logstash, Kibana, Flask, Kafka, Zookeeper, Selenium, BeautifulSoup4, HTML/CSS, Android Studio, Protobufs, DataDog, GitLab CI, Tilt, GitHub Actions

VC & Deployment Tools

git, Docker, Kubernetes

Hardware

FPGAs, soldering

Operating Systems

Linux, MacOS, Windows

Other Languages

English - Proficient

Chinese - Basic

ASL - Basic

Interests

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

Hobbies

food, volunteering, reading, learning, teaching, gyming