




















# Andrew Wei

## Software Engineer

📍 Seattle, WA    ✉ a.nowei42@gmail.com    ☎ 206-850-7878    in [linkedin.com/in/nowei](https://www.linkedin.com/in/nowei)    📄 [github.com/nowei](https://github.com/nowei)

### 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. & Mktg* 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