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 <u>Kafka</u>, <u>Zookeeper</u>, <u>Docker</u>, <u>Elasticsearch</u>,
  <u>Logstash</u>, and <u>Kibana</u>
— Created APIs to remotely access networking tools using <u>Flask</u>

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