

Alex Metzger

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PROFESSIONAL HISTORY

Cascade Enrichment – Tech Lead

SEPTEMBER 2022 - TODAY

Develop K-12 assessment software, innovate uses of technology in learning, educate tutors on said technology, advise the owner, and teach coding.

eKichabi Research – Django Developer

SEPTEMBER 2022 - TODAY

In charge of the USSD server: security, user-auth, maintenance, and integration w/ the Android app.

Our goal is to connect 10,000 sustenance farmers in Tanzania, author a technical paper on USSD app deployment in Africa, and author a paper on the economic benefits of technology in Africa.

Self Employed – Private Tutor

MAY 2022 - TODAY

Providing lessons for 6 students from 3rd-8th grade through a selfmade coding curriculum.

This job cultivates adaptability, lesson organization skills, and working well with people.

European Environment Agency – Intern

APRIL 2020 - MAY 2022

3 projects under the Water Framework Directive: Biodiversity (geospatial modeling), Water-flow (time series analysis), and Horizon Scanning.

Data viz/processing/model eval, literature review. Results used by the EEA and in 40 countries.

EDUCATIONAL HISTORY

University of Washington – Majoring in CS

SEPTEMBER 2022 - (planned graduation: JUNE 2026)

Bothell High School – Valedictorian

AUGUST 2018 - JUNE 2022

FAVORITE PROJECTS

Portfolio: <https://sandergeri.github.io/>

WIFI RSSI – Windows App

2000+ downloads, 4.3/5 rating. GUI to calculate the RSS in dBm of available networks. Functionality for averaging the RSS values over time intervals by analyzing WIFI packets and BSSIDs.

Attendance Scanner – Web App

QR-code based attendance system with a SQLite database. Integrates with SYSO[my youth orchestra]'s systems.

RELEVANT SKILLS

5+ years of full stack development. Proficient in Python, PHP, C#, NodeJS, MySQL, Java, and JavaScript. Using Express, Django, and FastAPI.

Deployed projects with Glitch, Deta, Hostinger, Hugging Face, Azure ML, Pythonanywhere, ngrok, and Firebase.

12 years violin: persistence, teamwork, leadership/Concertmaster skills.

2 years teamwork + communication skills from Science Olympiad.

RELATED ACHIEVEMENTS

1st Place in national Machine Learning competitions by Stanford and Southern California Scioly.

1st Place in the Regional and State Computer Science competitions of Washington Science Olympiad.

Allstate and All Northwest Orchestras; Special Recognition in Seattle Young Artists; Bronze Medal in Bach Festival; Tonkonogui Chamber Music Award