

# Alex Metzger

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## PROFESSIONAL HISTORY

### **eKichabi Research – Django Developer**

SEPTEMBER 2022 - TODAY

In charge of the USSD server and integration with the Android app. Data viz and analysis with **Jupyter notebooks, pandas, MySQL**.

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

### **Cascade Enrichment – Tech Lead**

SEPTEMBER 2022 - TODAY

Develop K-12 assessment software, innovate uses of technology in learning, teach coding.

### **Self Employed – Private Tutor**

MAY 2022 - TODAY

Providing lessons for **7 students** from 3rd-8th grade through a self-designed 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**. **Pytorch, Azure Databricks – Spark, Pandas**.

## EDUCATIONAL HISTORY

### **University of Washington – Majoring in CS**

SEPTEMBER 2022 - ca. 2025 (currently Junior standing)

### **Bothell High School – Valedictorian**

AUGUST 2018 - JUNE 2022

## FAVORITE PROJECTS

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

### **WIFI RSSI – Windows App**

3000+ downloads, 4.4/5 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**

Attendance system with QR-code enhancements, a **SQLite** database, **Braintree subscription system**, **OAuth2**, and integration with **SYSO**.

## RELEVANT SKILLS

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

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

**14 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**