Alexander Metzger

https://sandergi.github.io/

Seattle, WA 98195
alexander.le@outlook.dk

EXPERIENCE

Gooey.AI – *Software Engineer* — Jun. 2023 – Present
- **Slack Bot**: Worked closely with partners like Zephyr to implement an automated tool to integrate LLM powered Slack bots into Workspaces with Vector DBs, 200+ languages, and audio/image/video support.
- **Low Resource Language Efforts**: Partnered with Digital Green, EkStep Foundation, Bill & Melinda Gates Foundation, and more to lead deployment of models for 20 extra dialects and 100 extra languages, transliteration and glossary features to support expansion into Senegal and improve products in India.
- **Artistic QR code generator**: Launched the 3rd most used product with 50k+ active runs that has landed branding deals and social media exposure. Started as a machine learning intern, then got a return offer.
- **Python**: MLOps, Kubernetes, Docker, Google Cloud Platform, Django, Azure, OpenAI, Sentry, API design.

Akvelon – *Software Engineering Intern* — Jun. 2023 – Aug. 2023
- **Open source contributions**: to Microsoft Power BI across 2 visuals and 7 pull requests with test coverage.
- **Mentor's choice Leadership Award**: Led team of 4 to contribute to 5 visuals across 20 pull requests.
- **Applied contributions**: to analyze sensor data from a custom IOT device streaming data to the cloud.
- **TypeScript/C++**: Power BI Custom Visuals, Automated Testing, Embedded Systems, and Azure IOT Hub.

University of Washington ICTD Lab – *Undergraduate Researcher* — Sep. 2022 – Present
- **eKichabi v2 Django Developer**: Managed the backend team for the eKichabi v2 project, shipped a USSD server and Android app via a digital intervention to connect 10K farmers in Tanzania.
- **Co-first authored eKichabi v2 paper**: A paper on scaling technological interventions in Sub-Saharan Africa – accepted to ACM SIGCHI. Presented a 50 minute talk to 40 researchers at the CHANGE Seminar.
- **Technological Consultant**: Maintenance, consulting and analyzing data for an economic impact analysis of eKichabi v2 by Dr. Anderson (UW), Dr. Dillon (Cornell), and Dr. Rudder (UChicago).
- **Python/Java**: Jupyter, Django, MySQL, Redis, HTTP, REST, USSD/Telecom APIs and Android Studio.

Self Employed – *Private Tutor* — May. 2022 – Present
- **Provided lessons for 10 students**: 3rd-12th grade through a self-designed coding curriculum.
- **Cascade Enrichment Tech Lead**: Developed K-12 Assessment Software, designed Remote Certification process, and trained/certified 20+ educators. JavaScript, HTML, CSS, and Automation Software.

European Environment Agency – *Data Science Intern* — Apr. 2020 – May. 2022
- **3 Water Framework Directive Projects**: Biodiversity, Water-flow, and Horizon Scanning.
- **Results used by the EEA and in 40 countries**: Data visualizations, model evaluations, literature review, reports, and presentations. Python, Pandas, PySpark, Azure ML Studio, Azure Databricks, and Excel.

EDUCATION

University of Washington – *3.86 GPA, 3.98 in CS* — Sep. 2022 – ca. Jun. 2025

BS in Computer Science and Mathematics, Design Build Fly Electric Engineer, UW Symphony Orchestra Violin 1

Bothell High School – *Valedictorian (4.0 GPA), Varsity Science Olympian* — Aug. 2018 – Jun. 2022

PROJECTS

WiFi RSSI – *Windows App* — Jan. 2022 – Feb 2022

5000+ downloads, 4.4/5 rating. GUI to calculate the RSS in dBm of available networks by analyzing WiFi packets and BSSIDs. Made for WA Science Olympiad to standardize evaluation of antennas made for new WiFi Lab event.

Attendance Scanner – *Web App* — Aug. 2022 – Jun. 2023

Attendance system with QR-code enhancements, a SQLite database, Braintree subscription system, and OAuth2. Used by SYSO (my old youth orchestras of ~ 500 people). Prototyped in 2 weeks, then turned into a commercial product. Automated Tests, Github Actions, CI/CD, Firebase, Express.js, and Web Components.

PROGRAMMING SKILLS

Languages: JavaScript, TypeScript, Python, Java, C, C++, C#, SQL — 6+ years
Tech: Cloud (GCP, Azure, AWS), Payment APIs, Testing, React, Redis, Docker, Unix, Git — 3+ years