Alexander Metzger

https://sandergi.com

Seattle, WA 98195
alex@sandergi.com

EXPERIENCE

Koel Labs – *Founder and CEO* — Aug. 2024 – Present
- **Raised $100K in grants** (Mozilla, Microsoft, Google, Nvidia) for computational linguistics research.
- **Trained** SoTA NLP models, cutting streaming latency 60% and doubling accuracy.
- **Managed** open-source team (4 engineers, 6 researchers from CMU/UToronto); oversaw MLOps on GCP.

Ubiquitous Computing Lab – *Research Assistant* — Jun. 2024 – Present
- **Trained** computer vision ML models for sustainability; co-authored ACM IMWUT publication.
- **Improved** crop yields by 18% by developing scalable Embedded ML platform using PyTorch.
- **Collaborated** with Seismology researchers to reduce literature review times by 80% with Agentic RAG.

Gooey.AI – *Software Engineer* — Jun. 2023 – Sep. 2024
- **Deployed** ML solutions to 10M+ farmers across 5+ countries, demoed to 193 world leaders at the UN.
- **Led** 4-member intern team, merging 70+ PRs across production ML pipelines, teaching good API design.
- **Optimized** inference on GCP & Azure using Docker w/ Sentry monitoring, improving reliability by 40%.

ICTD Lab – *Research Assistant* — Sep. 2022 – May 2024
- **Developed** Android + USSD platform connecting 10K farmers; co-first-authored ACM SIGCHI paper.
- **Presented** work to 100+ researchers across 3 talks; awarded 2025 CRA Outstanding Researcher.
- **Reduced** latency by 30% with MySQL and Redis, and data costs by 80x using domain specific compression.

EDUCATION

University of Washington – *4.00 GPA* — Sep. 2024 – Jun. 2026
M.S. Computer Science, Meta Hackathon Winner, Next Entrepreneur, Graduate Compilers Teaching Assistant.

University of Washington – *3.87 GPA, 3.98 in CS* — Sep. 2022 – Jun. 2025
B.S. Computer Science and Mathematics, DBF CS Lead, Accelerated Honors Math, UWSO First Violin Section.

PROJECTS

PAGE: Published a novel graph embedding algorithm with optimized data structures in C. — Jun. 2025
YADES: Developed YOLOv8 compression framework reducing power consumption by 10x. — Jan. 2025
SCAT-Web: Built custom health software for 1K+ doctors & hospitals across 10+ nations. — Oct. 2024
SAM: Wrote CLI + NPM package for automated SQLite schema migrations; 3K+ installs. — Apr. 2024
AttendQR: Shipped SaaS attendance system (Express.js + Braintree) for 5 youth orchestras. — Jun. 2023
CE Remote Learning Platform: Deployed software for 500+ students; certified 30+ tutors. — Sep. 2022
Antenna Tester: Published Windows Application for Science Olympiad; 12K+ downloads. — Feb. 2022

PROGRAMMING SKILLS

Languages: Python, C, C++, Java, JavaScript, TypeScript, C#, SQL. — 7+ years
Technologies: PyTorch, React, Docker, GCP, Azure, AWS, Git, Unix. — 4+ years