

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