

Erin MyLungs

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Employment

03/2021 - **Lead Software Engineer (HDI Data Team)**, *Ecolab*, Seattle, WA
Present

Post-Acquisition (04/2023 - Present)

- Productionized a transformer (LLM) text classifier to process 60 million food code violations, leveraging spot instances which reduced infrastructure cost by 55%.
- Assisted with acquisition integration and migrating to use Ecolab infrastructure.

Hazel Analytics (03/2021 - 04/2023)

- Led prototyping R&D efforts of realtime inspection comment and notification system.
- Productionized a catboost text classifier that was able to predict 45 million violations in 90 minutes.
- Created devtools library that doubled our data triage team's productivity, increasing developer issue closures from 160 issues to over 300 web scraper issues per year.

12/2019 - **Machine Learning Engineer**, *Keller Kreativ*, Seattle, WA
12/2021

Set Tracker (11/2020 - 12/2021)

- Designed and implemented a mobile inventory tracking application using Flutter and Google Cloud Firestore.
- Conducted customer research and interviews to develop feature requirements.
- Forked and modified barcode scanner package to customize the GUI to match project requirements.

Brick IQ(12/2019 - 11/2020)

- Developed a Lego android app with live object detection and inventory management using MVVM architecture.
- Created FastAPI backend deployed on AWS EC2 which ran image classification and handled user data.
- Automated synthetic image creation pipeline and reduced data requirements from hundreds of real images to only synthetic images and reduced labeling labor requirements from 40 hours to 1 hour.

Skills

Backend

- Flask & FastAPI
- PostgreSQL & SQLite
- Python & R
- Web Crawling & Scraping

Frontend

- Flutter & Dart
- Android & Kotlin
- htmx & CSS
- React & Typescript

DevOps

- GitLab CI/CD
- Linux (Ubuntu) & Ansible
- Dependency Management
- Google Cloud Platform