

# Liam O'Driscoll

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## SKILLS

**AI:** OpenAI, LlamaIndex, RAG, Supabase **ML:** OpenCV, NLTK, PyTorch, TensorFlow, Keras, sk-learn, Numpy  
**Stack:** MERN, Laravel PHP **Frontend:** HTML, CSS, Tailwind, Bootstrap, JavaScript, TypeScript, React, Next.js  
**Backend:** Node.js, Express, PHP **Databases:** MySQL, PostgreSQL, MongoDB, Firebase **Languages:** Python, R, C++, Java  
**Tools:** Vercel, Heroku, GitHub, Jira, Amazon S3, Figma **DevOps:** Integrated CI/CD Pipelines, Docker, Bash

## EXPERIENCE

### Full Stack Developer | AltGrowth

May 2024 - Present

- Leveraged Stripe's customer event webhooks to create an automated feedback request email service capable of servicing 10,000 emails per day.
- Implemented a dedicated landing page, enabling customers to capture feedback with their own proprietary URL.
- Stack:** Laravel PHP **Tools:** Jira, Github, Heroku, Figma

### Junior Technical Product Manager | AltGrowth

Oct 2023 - April 2024

- Led a cross-functional team of contracted developers & designers in the end-to-end development of [TrustLoop](#), a B2B cloud based SaaS web app specifically designed for other startups to capture feedback before product market fit.
- Implemented an unframeworked javascript widget, enabling any customer to capture feedback regardless of their frontend framework, or underlying CMS platform.
- Stack:** Laravel PHP **Tools:** Jira, Github, Heroku, Figma

### Product Intern - Business & Technology | AltGrowth

June 2023 - Sep 2023

- Authored a scope of work document, conducted rigorous technical interviews, and hired a team of contracted developers.
- Created a CI/CD pipeline by leveraging Jira's ticketing system, Heroku's review apps, & Laravel PHP's feature testing framework to automate code delivery and ensure constant development of TrustLoop.
- Stack:** Laravel PHP **Tools:** Jira, Github, Heroku, Figma

## HACKATHON PROJECTS

### Real Estate Contract Compliance | AI Agents & Fintech Hackathon | Stanford Law Hackathon | MongoDB Hackathon

- Created a RAG pipeline for validating & extracting key information from real estate purchase agreement documents.
- MERN, OpenAI, Supabase, RAG, Vercel**

### [recall-app.xyz](#) - [repository](#) | AI Accelerated Learning Hackathon

- Simple & beautiful AI based web app designed for students to record & revisit any TA office hour section.
- MERN, Amazon S3, OpenAI, Heroku**

## ML PROJECTS

### [From Image Classification to Semantic Segmentation with CNNs](#)

- Provided a comprehensive review of image classification using MLPs, CNNs, and transfer learning with ResNet50.
- Demonstrated how ResNet50 can be adapted to semantic segmentation tasks for coarse and fine grain masks.
- Google Compute Engine, Python, Keras, TensorFlow, Numpy, Matplotlib, Transpose Convolution**

### [Statistical Language Model](#)

- Implemented unigram, bigram, and trigram language models with additive smoothing and linear interpolation.
- Tested and optimized hyperparameters to achieve a perplexity score of **2.165** on the best model.
- Python, Statistics, Natural Language Processing**

### [Sequence Labeling - Named Entity Recognition](#)

- Designed a Viterbi decoding algorithm to compute the highest scoring tag sequence based on a scoring function.
- Evaluated the model's precision, recall, and F1 score on CoNLL 2003 data, demonstrating its effectiveness in N.E.R.
- Python, Statistics, Natural Language Processing**

## EDUCATION

### University of California, Santa Cruz

June 2023

Bachelor of Science, Computer Science - Dean's List

## RELEVANT COURSEWORK

**ML:** Applied Machine Learning, NLP, Computer Vision, Statistics for Engineers, Statistical Inference, Bayesian Statistics

**CS:** Data Structures & Algorithms, Algorithm Analysis, Linear Algebra, Multivariable Calculus I & II, ODEs, Computational Models, Computer Systems Design, Computer Architecture, Embedded Systems