

Liam O'Driscoll

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SKILLS

ML: LangChain, OpenAI, OpenCV, NLTK, PyTorch, TensorFlow, Keras, sk-learn, Pandas, Numpy, Scipy
Stack: MERN, Laravel PHP **DB:** MySQL, PostgreSQL, MongoDB, Supabase, Firebase **Mobile:** Flutter, Xcode
Tools: Git, Jira, Heroku, Vercel, Amazon S3, Figma **DevOps:** GitHub Actions, CI/CD, Docker, Bash
Languages: HTML, CSS, JS, Python, R, C, C++, C#, Dart, Java **Frameworks:** Django
Product: End-To-End Product Development, Road Mapping, Technical Hiring & Contractor Oversight, Agile

HACKATHON PROJECTS

[recall-app.xyz](#) - [repository](#)

- Simple & beautiful AI based web app designed for students to record & revisit any TA office hour section. Built at the AI Accelerated Learning Hackathon @ the AGI house in SF.
- MERN, Amazon S3, OpenAI**

EXPERIENCE

Junior Technical Product Manager | AltGrowth (Startup) Oct 2023 - Present

- 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.
- 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.
- Led a cross-functional team of developers & designers in developing a demo for an ecommerce platform that leverages the OpenAI Assistants API to make personalized product recommendations based on user type.
- Stack:** MERN, Laravel PHP, OpenAI **Tools:** Jira, Github Actions, Heroku, Figma

Product Intern - Business & Technology | AltGrowth (Startup) June 2023 - Sep 2023

- Led a cross-functional team of developers & designers in developing an MVP for an OpenAI based mobile app.
- Conducted user interviews, created a product feature roadmap, and led a cross functional team of developers in releasing the next major version of the app, featuring a complete frontend redesign.
- Identified and led a team of contracted developers in resolving a major API key security vulnerability.
- Stack:** Flutter, Firebase, OpenAI **Tools:** Jira, Figma

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.
- Implemented the U-NET architecture for semantic segmentation resulting in improved accuracy.
- 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

ABOUT ME

Bilingual: English & Spanish | **Dual Citizenship:** USA & Ireland | **Travel** | **Music Production** | **Personal Fitness**