Liam O'Driscoll

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SKILLS

AI: OpenAI, RAG, LlamaIndex, HuggingFace, Chroma, Supabase **ML:** OpenCV, NLTK, PyTorch, TensorFlow, Keras
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**
- Implemented a dedicated survey landing page feature, expanding **TrustLoop**'s customer base to encompass both SaaS companies and small businesses.
- Developed an AI based reputation analysis feature by scraping customer review data from G2, Capterra, TrustPilot, Google Maps, Yelp, TripAdvisor, Booking.com, Airbnb, and more.
- Developed a Chat with your Reviews feature by implementing a RAG pipeline using huggingface for the embedding model, ChromaDB for the vector database, and a combination of LlamaIndex and GPT-4o for orchestration.
- Created an automated feedback request email service using Stripe's customer event webhooks & cron jobs.
- **Stack:** OpenAI, HuggingFace, LlamaIndex, Chroma, Laravel PHP, MySQL **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 development of the MVP for **TrustLoop**, a B2B SaaS designed for other startups to boost their reputation on platforms like Capterra, G2, and TrustPilot.
- Implemented an unframeworked javascript widget, enabling any customer to capture feedback on their SaaS platform regardless of their frontend framework, or underlying CMS with only 2 lines of code.
- **Stack:** Laravel PHP, MySQL **Tools:** Jira, Github, Heroku, Figma

Product Intern - Business & Technology | AltGrowth   **June 2023 - Sep 2023**
- Authored a scope of work document, conducted 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, MySQL **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.
- **Stack:** OpenAI, MERN, Supabase, 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.
- **Stack:** OpenAI, MERN, Amazon S3, 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.
- **Stack:** 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.

Sequence Labeling - Named Entity Recognition
- Designed a Viterbi decoding algorithm & evaluated the model's precision, recall, and F1 score on CoNLL 2003 data.

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