

Liam Kiernan

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Skills

Languages: Python (Proficient), Java (Proficient), Swift (Proficient), OCaml, C++, SwiftUI, JavaScript, SQL
Tools: Git, Supabase, Firebase, LLM Integration, REST API, RAG, Vector DBs, Qdrant, Chrome Ext. Dev, Lottie

Work Experience

Transcendworx

May 2025 - August 2025

Software Engineer and Machine Language Intern

Pittsburgh, PA (remote)

- Passion driven project building a RAG for company tackling substance abuse disorder
- Tuned embedding model, chunking, and RAG strategy to reduce LLM cost by 20% and hallucinations considerably (Python, Supabase (SQL), Azure)

This Life

May 2025 - August 2025

Software Engineer and Growth Intern

New York City, NY

- Fine-tuned iOS app, improved audio compression by 15%; fixed bugs (Swift, SwiftUI)
- Attracted 2,000+ new users in first month through cold outreach + social media campaign

Keye (YC F24)

May 2024 - August 2024

Software Engineer Intern

New York City, NY (remote)

- Joined test automation team, then transitioned to backend development for LLM RAG analyzing PE data (Python)
- Cleaned and prepared raw data for testing and training

Pittsburgh Steelers

May 2024 - August 2024

Software Engineer Intern

Pittsburgh, PA

- Built 2 internal mobile apps to improve communication and staffing workflows for Acrisure Stadium events (Swift, Firebase)

Projects

Ragged

- Designed and built an evaluation-first RAG config tuner that finds pareto-optimal chunk size, overlap, and embedding model
- Benchmarked OpenAI, BGE, and HuggingFace embeddings using Recall@k and GPT-4 eval (Python, LangChain, Qdrant)

Inferfleet

- Built a self-hosted LLM routing engine that selects models by latency, cost, and logic constraints
- Runs with vLLM engine and REST APIs; supports user-defined routing (Python, JavaScript)

Scout

- Built app recommending movies/books/podcasts using OpenAI and scraped user profile data (Letterboxd, Goodreads)
- Full-stack implementation on Supabase backend with React frontend (JavaScript, SQL)

Education

University of Pennsylvania (Bachelors)

August 2022 - May 2026

Double Major: Computer Science and Economics

Coursework: Computer Programming & Computer Systems, Micro and Macroeconomics, Statistics, Big Data

Activities: President of St. Anthony Hall Fraternity and Literary Society