Lukas Kelsey-Friedemann
Software Engineer (Full-Stack), Founder
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Full-Stack Engineer with 6 years of web development experience, specializing in AI/ML products and developer tools. YC Founder building scalable apps using React, Next.js, Python, Machine Learning, and Large Language Models.

PROFESSIONAL EXPERIENCE

Y Combinator, San Francisco   Nov 2022 - Present
Founder/CEO
- Designed, architected, and shipped three AI-powered products from 0 to 1 as solo technical founder: handling all aspects from system design and development to sales.
- Managed a team designers, engineers, and sales from 0 to 3 (1 FTE, 2 contractors) while maintaining rapid product iteration cycles

    Cherrry, Managed Semantic Search Platform for Developers
- A developer platform enabling teams to easily add production-ready semantic search to their applications
- Next.js/React frontend, Python/Flask backend, multi-tenant ElasticSearch infrastructure, and large language models to power document processing pipeline
- Early adoption from technical teams at YC startups and enterprise interest from companies like Dribbble.

    Well, Immigration Document Automation Platform
- AI automation for lawyers to streamline client onboarding - data extraction, search, analysis, pre-screening, document generation, and form filling.
- Next.js, Python/Flask, Express, combining LLMs with traditional ML models for document processing and a RAG pipeline for information extraction
- Developed novel hybrid OCR system achieving exceptional accuracy on complex immigration documents, completely eliminating manual data entry for law firms
- Delivered saved tens of thousands dollars for firms, replacing the cost of a full time paralegal

    Readlet, Cross-Platform Document Reading Assistant
- A mobile app that converts documents to natural-sounding audio, enabling users to read along while listening to photos of textbooks, pdfs, and articles
- React Native, Swift, and Next.js utilizing AWS services (S3, Textract) for document processing and implementing real-time text-speech synchronization
- Engineered text highlighting system synchronized with audio playback, handling hundreds of daily users and scalable to thousands of documents

Roboflow, Remote (in-person satellite office)   Nov 2021 - Nov 2022
Full-Stack Engineer
- Led development of Roboflow Universe, a community platform for computer vision models and datasets, driving 10x traffic growth through improved discovery and interaction features, and programmatic search engine optimization
- Collaborated with engineering and design teams to architect and implement core product features, focusing on user experience, technical scalability, and key business KPIs
- Developed interactive model demonstration platform with real-time inference capabilities, significantly improving sales team demos and driving user adoption of deployment APIs.
- Tech stack: HTML, CSS, JQuery, React, Express, TensorFlow.js, Docker, AWS

Terrier Tech, Minneapolis   Dec 2020 - Nov 2021
Full-Stack Engineer
- Led development of Lycensed, a compliance platform for pest control companies, from MVP to onboarding a Fortune 500 customer with ten of thousands of users within two months.
- Managed weekly feedback cycles and feature deployments with Fortune 500 customer, maintaining six-figure contract through rapid iteration and reliable delivery
- Contributed to internal Ruby on Rails developer tools, developing and open-sourcing automation utilities for improved team productivity
- Tech stack: Ruby on Rails, PostgreSQL, JavaScript, HTML, CSS

EDUCATION

University of Minnesota, B.S. Computer Science   2017 - 2020