

Kiarash Adl *Senior Software Engineer*

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 US Citizen

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SUMMARY

AI innovator and entrepreneur with 10+ years building scalable computer vision and machine learning solutions, from Google Search features serving billions of queries to patent-pending applications in home services. Proven track record taking products from prototype to production, securing venture funding, and leading high-performing engineering teams. Seeking to drive AI product innovation leveraging deep learning, full-stack development, and strategic technical leadership.

EXPERIENCE

02/2024 – Present

Austin, TX

AI Vision, Founder & CEO

- Built patent-pending AI and computer vision solutions to address real-world challenges in repair estimation and home improvement services
- Led the development and deployment of production-grade AI features, moving innovations from prototype to market-ready app in the App Store
- Established company strategy and built a high-performing multidisciplinary team
- Drove technical infrastructure decisions, ensuring scalable, efficient delivery of advanced AI-driven services

03/2019 – 01/2024

USA

Various Clients, Technical Consulting

- Collaborated on engineering projects, delivered MVPs and prototypes, and established best practices in product development
- Advised companies on technology roadmaps to support innovation
- Collaborated with executives to translate product vision into actionable engineering plans and effective delivery

03/2018 – 03/2019

New York, NY

Monir, Founder & CEO

- Developed AI technology for personalized content creation in shopping
- Architected and delivered a scalable, serverless platform using Python microservices
- Secured venture capital funding; recruited and led a team of full-time employees and creative contractors
- Oversaw all aspects of product development, team management, and go-to-market strategy

12/2014 – 03/2018

New York, NY

Google, Software Engineer

- Designed, built prototypes, and deployed to production new features in the Search Knowledge Panel
- Improved infrastructure for delivering informational messages to users across Google
- Implemented quality improvements on a system designed to select a representative image for every entity in the Knowledge Graph; the selected images are used in Google products
- Collaborated with cross-functional teams to enhance user experience for billions of daily queries

02/2014 – 10/2014
Cambridge, MA

BlockedOnline.com, Student Researcher

- Student under the supervision of Sir Tim Berners-Lee, founder of the World Wide Web
- Developed servers and multiple client-side tools to gather and visualize internet censorship data
- Implemented processes to automate data validation and scrubbing

06/2014 – 09/2014
San Francisco, CA

Twitter Ads, Software Engineering Intern

- Contributed to an experimental machine learning algorithm for Twitter Ads to expand the target audience to non-Twitter users
- Implemented a scalable multi-label ridge regression model by utilizing matrix factorization and multiplications in Hadoop and Scalding

EDUCATION

2014
Cambridge, MA

**B.S. in Electrical Engineering and Computer Science,
Massachusetts Institute of Technology (MIT)**

SKILLS

AI & Machine Learning

Deep learning (PyTorch, Transformers, CLIP), distributed ML (Ray), classical ML (scikit-learn, XGBoost), GPU acceleration (CUDA/cuDNN/NCCL), data tooling (NumPy, Pandas).

Observability & Performance

Prometheus, Grafana, OpenTelemetry, structlog, Sentry, profiling & benchmarking (pytest-benchmark).

Backend & Distributed Systems

Python (FastAPI/Flask, asyncio, AIOHTTP), microservices, event-driven architectures, task orchestration (Celery, Ray), messaging systems (Kafka), caching (Redis), SQL/ORMs (PostgreSQL, SQLAlchemy, Peewee).

Leadership & Product

Technical roadmapping, architecture decisions, team building, MVP-to-production execution, startup leadership and fundraising.

DevOps & Infrastructure

Docker & multi-service Compose (17+ services), async/high-performance servers (Uvicorn/uvloop), CI/CD, build/test tooling (Black, Ruff, PyTest), cloud platforms (Azure primary; AWS, GCP).

Frontend & Mobile

React.js, Expo React Native, UI prototyping, API integration, client-side AI workflows.

AI PROJECTS

Financial Intelligence Meta-Layer (FIML)

- Built an AI-native MCP server for financial data aggregation with intelligent multi-provider orchestration and multilingual compliance guardrails
- Architected a 32,000+ LOC codebase in Python featuring a custom DSL, mobile app (Expo), usage analytics & quota management, and comprehensive CI/CD pipelines with 1,03+ automated tests at 100% pass rate
- Delivered Phase 1 complete with infrastructure tests, agent workflows, and provider integrations; open-source on GitHub with active Phase 2 development

HireAligna.ai

- Developed a conversational AI recruiter platform that schedules and conducts voice interviews via LiveKit, transcribes with Azure OpenAI, and performs automated candidate-job matching
- Backend stack: Express.js API, Next.js 16 frontend, PostgreSQL, Redis, Python-based LiveKit voice agent; deployed via Docker with Prometheus metrics, Grafana dashboards, and Sentry error tracking
- Implemented bi-directional smart matching with skill-based scoring, AI-generated candidate summaries, and dual user flows for candidates and employers with structured interview data extraction

RESEARCH

01/2014 – 05/2014
Cambridge, MA

MIT CSAIL Laboratory

- Contributed to machine learning research based on online students' activity data from edX courses
- Co-authored "Feature factory: Crowdsourced feature discovery," in Proc. ACM Conference on Learning @ Scale – L@S '15, pp. 373–376, ACM, 2015

06/2011 – 01/2012
Cambridge, MA

MIT CSAIL Laboratory

- Achieved 55x speed-up by implementing novel speech recognition method to run on GPUs
- Co-authored "Fast Spoken Query Detection Using Lower-Bound Dynamic Time Warping on Graphical Processing Units," in Proc. ICASSP, pp. 5173–5176, Kyoto, Apr. 2012