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