

# Kiarash Adl *Senior Software Engineer*

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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	<b>BlockedOnline.com, Student Researcher</b> <ul style="list-style-type: none"> <li>• Student under the supervision of Sir Tim Berners-Lee, founder of the World Wide Web</li> <li>• Developed servers and multiple client-side tools to gather and visualize internet censorship data</li> <li>• Implemented processes to automate data validation and scrubbing</li> </ul>
06/2014 – 09/2014 San Francisco, CA	<b>Twitter Ads, Software Engineering Intern</b> <ul style="list-style-type: none"> <li>• Contributed to an experimental machine learning algorithm for Twitter Ads to expand the target audience to non-Twitter users</li> <li>• Implemented a scalable multi-label ridge regression model by utilizing matrix factorization and multiplications in Hadoop and Scalding</li> </ul>

EDUCATION

2014 Cambridge, MA	<b>B.S. in Electrical Engineering and Computer Science,</b> <i>Massachusetts Institute of Technology (MIT)</i>
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SKILLS

<b>AI &amp; Machine Learning</b> Deep learning (PyTorch, Transformers, CLIP), distributed ML (Ray), classical ML (scikit-learn, XGBoost), GPU acceleration (CUDA/cuDNN/NCCL), data tooling (NumPy, Pandas).	<b>Backend &amp; Distributed Systems</b> Python (FastAPI/Flask, asyncio, AIOHTTP), microservices, event-driven architectures, task orchestration (Celery, Ray), messaging systems (Kafka), caching (Redis), SQL/ORMs (PostgreSQL, SQLAlchemy, Peewee).	<b>DevOps &amp; Infrastructure</b> 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).
<b>Observability &amp; Performance</b> Prometheus, Grafana, OpenTelemetry, structlog, Sentry, profiling & benchmarking (pytest-benchmark).	<b>Leadership &amp; Product</b> Technical roadmapping, architecture decisions, team building, MVP-to-production execution, startup leadership and fundraising.	<b>Frontend &amp; Mobile</b> React.js, Expo React Native, UI prototyping, API integration, client-side AI workflows.

AI PROJECTS

<b>Financial Intelligence Meta-Layer (FIML)</b> <ul style="list-style-type: none"> <li>• Built an AI-native MCP server for financial data aggregation with intelligent multi-provider orchestration and multilingual compliance guardrails</li> <li>• Architected a 32,000+ LOC codebase in Python featuring a custom DSL, mobile app (Expo), usage analytics &amp; quota management, and comprehensive CI/CD pipelines with 1,03+ automated tests at 100% pass rate</li> <li>• Delivered Phase 1 complete with infrastructure tests, agent workflows, and provider integrations; open-source on GitHub with active Phase 2 development</li> </ul>
<b>HireAligna. ai</b> <ul style="list-style-type: none"> <li>• Developed a conversational AI recruiter platform that schedules and conducts voice interviews via LiveKit, transcribes with Azure OpenAI, and performs automated candidate-job matching</li> <li>• 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</li> <li>• 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</li> </ul>

## 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