

ARI KAMLANI

AI / ML STRATEGY & TECHNOLOGY ARCHITECT

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Manhattan, NY



EXPERTISE

AI & Machine Learning

Responsible AI

DataOps, MLOps, Infrastructure

Innovation & Experimentation

Strategic Storytelling

Design Thinking

Product & Platform Strategy

Agile Methodology

EDUCATION

BS Electrical Engineering
Lehigh University

Credits Forward, MS Data Science
Data ScienceTech Institute

Immersive, Data Science
Galvanize

Big Data Strategy, Design Thinking
Rutgers Innovation Center

Product Management
Product School

Platform Strategy
Product Strategy

Product Experimentation
Product Engagement Strategy

Product Positioning

Brand Strategy

Section4 – Business Strategy

SUMMARY

Accomplished AI & Machine Learning (ML) technology leader skilled in defining and scaling out strategic early-stage responsible machine intelligent solutions for startups and large enterprises. A cross-function leader known for driving effective decision making, delivering on high value propositions and product strategy for a variety of enterprise program initiatives, while de-risking roadmap initiatives.

EXPERIENCE

Beyond Limits | Manhattan, NY 2021 – Present
Senior AI Strategist and Technology Architect – Office of CTO (OCTO)

Advance AI R&D portfolio growth investments, collaborate with C-Suite on new initiatives and client opportunities, and construct processes to scale the organization

- Lead AI platform strategy, requirements definition, roadmap planning, technical architecture for Hybrid AI, pairing data-driven ML with authoring cognitive symbolic knowledge constraint reasoning and decision support with explainable audit trails
- Engage with Alpha partners to improve model performance and outcomes with higher-order concepts, providing an auditable reasoning trace per silent model failures under qualifiers of high uncertainty, low stability, and poor data quality
- Execute client discoveries, opportunity assessments, SOW proposals, and AI technical architecture development for strategic multiple pilot delivery verticals, e.g., HVAC energy efficiency, patient clinical care, and healthcare monitoring

ThoughtWorks | Manhattan, NY 2018 – 2020
Principal Data Scientist – Professional Services (PS)

Shape machine intelligent impactful portfolio offerings, accelerate early-stage inbound pursuits, grow the AI capabilities, and co-lead numerous discovery client workshops

- Improved model robustness with mitigating guardrails, decision judgement layers, and behavioral testing for fairness and equal opportunity disparities across use cases in information retrieval (IR) and data journalism complaint registries (CRs)
- Boosted multimodal IR (Retriever-Reader) semantic search ranking initiatives, blending content governance, query disambiguation, and entity linking KBs
- Evolved supply chain lubricant inventory order fulfillment via safety stock demand forecasting, anomaly detection, and truck packing convex solver constraints

Pathmind (formerly SkyMind) | San Francisco, CA 2017 – 2019
Deep Learning Engineer Consultant – Solutions Architecture

Create and champion deep learning offerings (TensorFlow, PyTorch, DL4J) from research to production across text, vision, and reinforcement learning methodologies

- Enabled business development in solutions architecture, partnership engagements, benchmarking optimizations (Intel Xeon 2nd Gen with MKL), and delivering custom enterprise L&D educational workshop sessions
- Strengthened the design of reinforcement learning (RLlib, Ray) SaaS decision agents for training and serving policies for simulation environments (AnyLogic)
- Executed engagements across semantically encoding dialogue matched query intents to distilled Transformer architectures, and improving the object detection of poor welding joint robotic fusion behavior in an automotive assembly line

TECHNOLOGY

Agile PM: Jira, Pivotal Tracker, Aha, Basecamp, Bugzilla, Trello, Doors

Collaborative Tools: Miro, Confluence, Notion, Airtable

Languages: Python, R, SQL, Scala, Java, C/C++, JS, HTML, CSS

Visual Analytics: Tableau, Kibana, Grafana, Prometheus

Cloud: AWS, Azure, GCP

ML: PyTorch, TensorFlow, Keras, DL4J, Scikit-learn, Hugging Face, spaCy, OpenCV, RLib, SHAP

Distributed Compute: Ray, Apache Spark, Hive, Hadoop

MLOps: MLflow, W&B, Airflow, Docker, FastAPI

Databases: Elasticsearch, Solr, MongoDB, Cassandra, Redis, PostgreSQL, MySQL, Neo4J

Environments: Jupyter, Colab, PyCharm, VSCode, RStudio, Zeppelin, IntelliJ, Eclipse

GitOps: Git, Bitbucket, Perforce, Clearcase, SVN, PVCS, Travis, Jenkins, GoCD

Build Tools: Maven, SBT, Make, GCC, Bazel

PATENTS

Device Localization based on a Learning Model (2017)

Interference Control in Wireless Communications (2016)

EXPERIENCE (CONTINUED)

JP Morgan Chase | Manhattan, NY 2017 – 2018

Data Scientist – Digital Intelligence, Consumer and Community Banking (CCB)

Strengthen consumer and small business personalization experiences, providing recommendations for Chase Products across the fully governed modeling lifecycle

- Crafted *Ultimate Rewards* loyalty program scalable implicit ranking recommenders encompassing customer redemptions and spending propensity for branded offers
- Partnered with business units to deliver personalized insights, launching card acquisition FOMO message underwriting and targeted ad spending campaigns
- Led efforts in improving suggestive nudges for savings acquisition cash flows via custom neighborhood embedding proximity representation models

Techstars | Manhattan, NY 2017 – 2017

Technologist in Residence (TIR) – Venture Accelerator, IoT Division

Advise, facilitate design and architecture to scale several seed entrepreneurial startup ventures in acquiring their next round of funding and advancing roadmap offerings

- Create a series of starter kits for startups to easily adopt in migrating their existing technology architectures, e.g., from single node to distributive computation, augmenting and constraining computer vision synthetic simulations
- Furthered product offering data services, overcoming execution hurdles across multiple concurrent pilots via coupling rule-based greedy methods with NLP embedding model architectures

Otto (formerly Tyto Life) | San Mateo, CA 2017 – 2017

Data Scientist Consultant – Products Division, Home Automation

Head the design, data acquisition, measurement, and pedestrian pattern detection for keyless secure door access control in residential and corporate environments

- Reduced false positive tracking detections via denoising RF sensory inputs (BLE, Radar) deployed as on-device ARM target firmware deployment (C)
- Established a new statistical modeling pipeline to diagnose and improve upon the industrial factory unit yield production and factor assembly labor productivity rates

Prior Work Experiences

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| • Inria, Research Assistant – Spatio-Temporal Activity Recognition | 2016 – 2016 |
| • Nagra, Software Expert – Group Incubation & Innovation | 2012 – 2015 |
| • Sportvision, Special Projects Consultant – Office of CTO | 2011 – 2012 |
| • Broadcom, Principal Engineer – Systems Engineering | 2011 – 2011 |
| • Qualcomm, Staff Engineer – Computing Enablement | 2007 – 2010 |
| • TapRoot Systems, Principal Engineer – Mobile Products I PS | 2003 – 2007 |
| • Panasonic Mobile, Senior Engineer – Mobile Platforms | 2000 – 2003 |
| • Verizon Wireless, RF Engineer – RF Systems Performance | 1999 – 2000 |

Professional Affiliations

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| • Packt, Content Book Reviewer – Interpretable & Fair ML | 2022 – Present |
| • Manning Publications, Content Advisor and Reviewer | 2020 – Present |
| • IEEE SA, Committee Member - Ethics of A/IS | 2020 – 2022 |
| • Rutgers Innovation, Advisory Board - Big Data Strategy | 2018 – 2020 |