**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.

**ARI KAMLANI**

**AI/ML STRATEGY & TECHNOLOGY ARCHITECT**

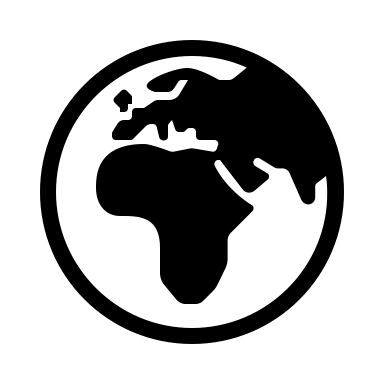
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Manhattan, NY



**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

**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**

**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**

* 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 | PS 2003 – 2007
* Panasonic Mobile, Senior Engineer – Mobile Platforms 2000 – 2003
* Verizon Wireless, RF Engineer – RF Systems Performance 1999 – 2000

**Professional Affiliations**

* 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

**PATENTS**

Device Localization based on a

Learning Model (2017)

Interference Control in   
Wireless Communications (2016)

**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, RLlib, 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