ARI KAMLANI

AI/ML TECH STRATEGY
SYSTEMS ARCHITECT

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Manhattan, NY

EXPERTISE

Artificial Intelligence (AI)

Machine Learning (ML)

Responsible AI

DataOps, MLOps, Infrastructure

Innovation & Experimentation

Product & Platform Strategy

Stakeholder Management

Strategic Storytelling

Design Thinking

Agile Methodology

EDUCATION

Digital Strategy
Section4 Business Strategy

Product Management
Product School

Big Data Strategy
Design Thinking
Rutgers Innovation Center

Credits Forward / MS Data Science
Data ScienceTech Institute

Immersive, Data Science
Galvanize

B.S. Electrical Engineering
Lehigh University

SUMMARY

Accomplished AI/ML technology, researcher, and product leader experienced in shaping strategy and delivering machine intelligent technology solutions for enterprise global programs. Skilled in operating in ambiguity and across the product innovation lifecycle, from incubating early-stage initiatives to executing at scale. Recognized as a creative cross-functional leader, bridging business and technology, and identifying new R&D high-value opportunities with minimized risk exposure.

EXPERIENCE

Beyond Limits | Manhattan, NY   2021 – Present
Senior AI Strategist and Technology Systems Architect – Office of CTO (OCTO)
Advance AI R&D portfolio growth investments, instrument processes to qualify leads, collaborate with C-Suite on new R&D greenfield innovation horizon opportunities
- Lead AI PaaS ecosystem strategy, systems architecture, requirements definition and roadmap planning for Hybrid AI, pairing data-centric ML with cognitive symbolic knowledge constraint reasoning and explainable decision support audit trails
- Execute multiple technology partnership initiatives, establishing evaluation scorecards for technology adoption and designing prototypes for incorporation across business use cases, product designs, and MLOps architecture designs
- Conduct client workshops, craft SOW proposals, prototype and transform AI model designs and systems architecture for incubating R&D client opportunities across clinical preventive care risk stratification, infant growth journey tracking deployed at the edge, and optimizing commercial energy efficiency for HVAC systems

ThoughtWorks | Manhattan, NY   2018 – 2020
Principal Data Scientist – Professional Services (PS)
Shape machine intelligent portfolio client pursuits, collaborate with leadership on AI emerging trends, improve policies for strategic project acquisition and maturity
- Led the evolution of AI multimodal semantic search ranking microsite experiences, supplemented by content governance, query disambiguation, and KB entity linking
- Established responsible suites to improve model robustness, group fairness and equal opportunity disparities with guardrails, decision judgement layers, and behavioral testing per information retrieval and data journalism compliant registries
- Optimized inefficiencies in supply chain lubricant inventory order fulfillment, forecasting safety stock demand with truck packing convex solver constraints

Skymind / Pathmind | San Francisco, CA   2017 – 2019
Deep Learning Engineer Consultant – Product and Solutions Architecture
Create and champion deep learning offerings (TensorFlow, PyTorch, DL4J) from research to production across text, vision, and reinforcement simulation technologies
- Enabled business development in partnership engagements, benchmarking optimizations (Intel Xeon 2nd Gen with MKL), and enterprise L&D training workshops
- Guided the reinforcement learning (RLlib, Ray) PaaS architecture of decision multi-agents for training and serving policies of simulation environments (AnyLogic)
- Led engagements to evolve model architecture performance, e.g., via shallow encoders to distilled transformer architectures for semantic query intent matching, and residual temporal layers per robotic fusion welding dispersion object detection

TECHNOLOGIES

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

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

Cloud: AWS, Azure, GCP

ML Ecosystems: PyTorch, TensorFlow, DL4J, Scikit-learn, Hugging Face, Ray/RLlib, Gym, Apache Spark, spaCy, OpenCV, Optuna

MLOps: MLflow, Airflow, Tecton Feast, Docker, FastAPI, Prometheus

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

Apps & Visualization: Streamlit, Tableau, Kibana, Grafana

GitOps: Git, Bitbucket, Perforce, ClearCase, SVN, PVCS, Travis, Jenkins, GoCD, GitHub Actions

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

Collaborative Tooling: Miro, Confluence, Notion, Airtable

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 Chase personalization experiences and platforms, delivering scalable ML recommendation models and insights across their regulated governed lifecycle
- Crafted implicit multi-stage personalized ranking models serving branded loyalty offers per customer redemption history and spending propensity card transactions
- Partnered with business units to deliver personalized banking card targeted ad FOMO campaigns based on segmented cash flow spending behavioral models
- Launched the suggestive nudge cash flow savings and investment offerings, implemented by scalable neighborhood embedding proximity (PLY) models

Techstars | Manhattan, NY   2017 – 2017
Technologist in Residence (TIR) – Venture Accelerator, IoT Division
Advise and facilitate the technology evolution of several seed entrepreneurial startup ventures in acquiring their next round of funding and advancing their roadmap offerings
- Launched multiple starter kits for startups to transform their ML technology designs, e.g., from single node to distributive compute, augmented training data with synthetic simulation data, mocked experimentation scenarios and evaluations
- Scaled data connector services to accelerate concurrent onboarding and pilot execution via transforming brittle rule-based greedy methods towards a suite of enriched feature vectors with domain knowledge encoding and guardrails

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 commercial environments
- Reduced false positive (FP) tracking detections via denoising RF sensory inputs (BLE, Radar) and deployed as on-device ARM target embedded firmware
- 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, Specialized Consultant – Office of CTO, NASCAR   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 Reviewer – Interpretable & Fair ML   2022 – Present
- Manning Publications, Content Advisor – Bias in ML   2020 – Present
- IEEE SA, Committee Member - Ethics of A/IS   2020 – 2022
- Rutgers Innovation, Advisory Board - Big Data Strategy   2018 – 2020