

## ARI KAMLANI

### Data Scientist / Principal Engineer / Technology Strategist

San Francisco, CA

  @akamlani ❖ arikamlani.com

✉ akamlani@gmail.com

📞 (415) 926-1221

Data Scientist/Machine Learning Engineer, Principal Engineer skilled in delivering strategic large-scale and early-stage projects, with particular attention to alleviating pain points, improving experiences, deriving business insights, and expressing engaging narratives. Experienced in driving new strategic business initiatives, producing R&D POC designs, and scaling machine learning experiments.

#### TECHNICAL SKILLS

- Apache Spark, Hadoop, Hive
- Elastic Search (ELK), Apache Solr
- Cassandra, MongoDB, Neo4j
- Postgres, MySQL
- IBM SPSS, BigInsights, Bluemix
- SAS Enterprise Miner, Visual Analytics
- Git, Perforce, ClearCase, SVN, PVCS
- JIRA, Pivotal Tracker, Bugzilla, Doors
- DL4J, TensorFlow, PyTorch, ONNX, Keras
- Spacy, NLTK, OpenCV
- Sklearn, H2O
- Jupyter, Zeppelin, RStudio
- IntelliJ, Eclipse, Spyder, IPython
- AWS, MSFT Azure, Google GCP
- Flask, Play Framework
- Tableau, D3.js, p5.js, Plotly
- Scala, Java, Python, R, SQL, C, C++, UML, ARM
- JavaScript, Node.js
- HTML, CSS
- Bootstrap, Jekyll
- Maven, SBT
- Linux, QNX, WinCE

#### PATENTS

- Interference Control in Wireless Communication; United States 9,357,404 | Issued May 2016
- Device Localization Based on a Learning Model; United States 14/311,077 | Filed June 2014

#### EDUCATION/CERTIFICATIONS

Rutgers Innovation (New Brunswick, NJ) | Design Thinking Professional Program June 2019  
Rutgers Innovation (New Brunswick, NJ) | Big Data Professional Program May 2019  
Udacity (Online) | Self-Driving Car (SDC) Nanodegree (1+ Terms) Nov 2016 – Apr 2017  
Galvanize (San Francisco, CA) | Data Science Immersive Bootcamp Jun 2016 – Aug 2016  
Data ScienceTech Institute (Paris, France) | MS Data Science (Select Courses) Oct 2015 – May 2016  
Lehigh University (Bethlehem, PA) | B.S. Electrical Engineering (EE) Aug 1995 – May 1999

#### ADVISORY BOARDS

Rutgers University Center of Innovation Education | Big Data Professional Program Oct 2018 – Present

#### EXPERIENCE

##### ThoughtWorks | Manhattan, NY

Sep 2018 – Present

Principal Data Scientist – Professional Services

Responsible for accelerating new and existing Client Data & AI Opportunities, shaping ThoughtWorks Data Portfolio Offerings in Platforms and Intelligent Applications. Translate business expectations and requirements from key client stakeholders into applied data-driven predictive and prescriptive outcomes, furthermore, fostering a culture of experimentation and innovation.

- Advise on Data Strategy, Design, Architecture, and Technology selection in modernizing and transforming Data & ML Platforms, Products & Services, prioritizing technical tradeoffs and debt with business objectives
- Advise on Content Governance for producing continuous high-fidelity training data for Modeling & Analysis
- Lead Contextual Machine Intelligence Solutions per Natural Language Processing (NLP) use cases such as Contextual Enterprise Search, Document Classification & Clustering
- Collaborate with Demand/Sales on early-stage Client Pursuits to gain new Data Project Streams of work, improving the Portfolio and Revenue Earnings
- Engage in Assessment and Discovery Workshops, followed by Professional Services Delivery Engagements, aligning technical delivery with expectations and business outcomes
- Guide strategic technical assessments in facilitating client acquisition, technical feasibility and maturity

**Skymind | San Francisco, CA**

May 2017 – Present

*Deep Learning Engineering Consultant – Solutions Architecture*

Responsible for improving the Deep Learning for Java (DL4J) Algorithm Suite, Skymind Intelligence Layer (SKIL) Model Platform, and Enterprise Client Portfolio

- Facilitate Business Development and Enterprise Customer Technical Architecture Client Engagements
- Present and create tailored DL4J suite learning content for Enterprise partner vendor and public workshops
- Develop Deep Learning vendor engagement feasibility studies per improving existing POC implementations for industrial automotive multimodal computer vision welding detection event scenarios
- Develop POC JVM modules demonstrating the Skymind Intelligence Layer (SKIL) Model Serving capabilities, deploying native TensorFlow trained temporal image networks

**JP Morgan Chase (JPMC) | Manhattan, NY**

Nov 2017 – Aug 2018

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

Responsible for improving the consumer personalization experience and recommended insights for Chase Products across the full model management lifecycle, from experimentation to launch, including Data Governance aspects

- Develop scalable implicit ranking recommendation ML Tuned Models (via Apache Spark, Scala, ML Pipelines) for *Chase Ultimate Rewards* encompassing spending propensity and latent factor likewise redemptions
- Engage with LOB's to deliver personalized insights, launching and monitoring deployed Chase card acquisition message underwriting and targeted ad spending-based *Campaigns*
- Improve the suggestive *Nudges* for *Savings Acquisition and Engagement* towards customer financial health

**Techstars | Manhattan, NY**

July 2017 – Oct 2017

*Technologist in Residence (TIR) – IoT Accelerator Vertical*

Responsible for advising several Entrepreneurial Ventures in advancing their Pilot & Product IoT/M2M designs

- Advance company product offerings via solving or reducing bottlenecks and pain points in their data pipeline, further allowing for execution across multiple concurrent pilots
- Advise companies in systems architecture, benchmarking and scaling (via Apache Spark) their solution
- Lead technical company mentoring sessions and weekly group discussions

**Otto (Tyto Life) | San Mateo, CA**

Mar 2017 – Jun 2017

*Data Scientist & Engineering Advisor/Consultant – Product Division*

Responsible for enhancing the Connected Keyless Home Access Control consumer experience

- Drive data acquisition, measurement, and data strategy for secure sensor (BLE, Radar) door access, consisting of off-device (Python) and on-device deployment firmware (C) via ARM Cortex-M CMSIS DSP Library
- Improve pedestrian detection confidence via denoising and smoothing RF sensory inputs via Kalman Filters
- Provide ETL and aggregate statistical analysis per factory unit yield production and productivity rates

**Inria Research Institute | Sophia Antipolis, France**

Jan 2016 – Apr 2016

*Research Assistant – STARS (Spatio-Temporal Activity Recognition Systems) Research Team*

Responsible for improving Computer Vision semantic scene interpretations per healthcare diagnosis for the Elderly

- Applied traditional Computer Vision techniques and Deep Learning CNN architectures per segmented region classifications for semantic ontology event activity recognition representations and analysis
- Enhanced event scenario recognition models resulting in improved accuracy detection, reducing false positives via accounting for relaxed temporal constraints and prior contextual states
- Improved classification object detection inference via model layer architecture fine-tuning and optimizations

**Nagra Kudelski Group | San Francisco, CA**

Sep 2012 – May 2015

*Software Expert – Group Innovation & Incubation*

Responsible for future technology & application advancements within an agile R&D Innovation Group

- Initiated proposals per Intellectual Property (IP), creation of patents, and formation of new business units
- Successfully executed special project research technology directives to assess portfolio value-add
- Formulated new strategic partner vendor relationships to strengthen Digital TV and Public Access sectors
- Led POC low-cost RFID BAP long-range distance detection (100m+) designs in theme parks and ski resorts

**Sportvision | Mountain View, CA***Oct 2011 – Apr 2012**Special Projects/Embedded Software Consultant – Office of CTO, Motorsports Division*

Responsible for advising enhancements of NASCAR Trucks Vehicle Tracking prototype per broadcast media

- Advised the vehicle tracking and sensory measurement migration from Computer Vision detection to GPS IMU enabled localization to improve accuracy during challenging weather conditions
- Successfully delivered a customized Embedded Linux Kernel and Root Filesystem (RFS) distribution to improve stability and performance of predecessor system, notably reducing system crashes, latency, and boot-time
- Introduced new mechanisms per critical health diagnostic detection and image upgrades during race day

**Broadcom | Sunnyvale, CA***Feb 2011 – Oct 2011**Principal Engineer – Systems Engineering, Cellular Division*

Responsible for WiMAX and LTE radio network driver systems software architecture mobile reference designs

- Directed technology teams per mobile platform processor architectures, requirements and integration of vendor Voice over LTE (VoLTE) stack in aligning with product roadmap features
- Led multi-site WiMAX Certification vendor migration platform architecture from Linux to QNX

**Qualcomm | Raleigh, NC***Aug 2007 – Jan 2010**Staff Engineer – Computing & Consumer Division*

Responsible for Windows Mobile board support package (BSP) Snapdragon ARM Cortex based reference designs

- Initiated cross-disciplinary technology reviews to assess and improve BSP reference architecture designs
- Enhanced systems performance initiatives, further optimizing boot time, performance monitors, and latency
- Advised OEMs in reference design architecture, feature development, and Windows Mobile Logo Certification

**Additional Prior Experiences:**

TapRoot Systems (Morrisville, NC) | Principal Engineer/Lead – Mobile Products &amp; Services

*Jul 2003 – Aug 2007*

Panasonic Mobile Communications (Suwanee, GA) | Senior Engineer – Mobile Platforms

*Apr 2000 – Jul 2003*

Verizon Wireless (Plymouth Meeting, PA) | RF Engineer – Systems Performance

*Sep 1999 – Feb 2000*