***ARI KAMLANI***  ** [*@akamlani*](https://www.linkedin.com/in/akamlani) [*arikamlani.com*](http://arikamlani.com)

***Data Scientist | Principal Engineer | Technology Strategist***  [*akamlani@gmail.com*](mailto:akamlani@gmail.com)

*San Francisco, CA*✆ *(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**

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| --- | --- | --- |
| * 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, H20 * 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 SSD CNN and LSTM native TensorFlow trained networks for a large home-repair retailer vendor

**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 & 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*