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

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

*San Francisco, CA*✆ *(415) 926-1221*

*Data Scientist, Principal Engineer* skilled in delivering strategic large-scale and early-stage projects, with particular attention to alleviating pain points, deriving business insights, and simplifying complex systems. Experienced in driving new strategic business initiatives, developing client/vendor engagements, and producing R&D POC designs. Proficient in building end-to-end distributed machine learning pipelines, comprised of processing both structured and unstructured data.

**TECHNICAL SKILLS**

|  |  |  |
| --- | --- | --- |
| ***Enterprise/Tools***   * Apache Spark, Hadoop | ***Data Analysis/Frameworks***   * Postgres, MySQL, SQLite, MongoDB | ***Programming/Platforms***   * Scala, Java, Python, R |
| * AWS EC2, EMR, S3 * SAS Enterprise Miner, Visual Analytics * IBM BigInsights, SPSS, Bluemix, Watson * Git, Perforce, ClearCase, SVN, PVCS * Pivotal Tracker, Doors, Bugzilla | * Jupyter, Zeppelin, RStudio, Rodeo * IntelliJ, Eclipse, Spyder, IPython * Sklearn, NLTK, GraphLab, OpenCV * DL4J, TensorFlow, Keras * D3.js, p5.js, Plotly | * SQL, C, C++, ARM, UML * HTML, CSS, Markdown * JavaScript, Node.js * Bootstrap, Jekyll * 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*Jun 2014*

**EDUCATION/CERTIFICATIONS**

Udacity Self-Driving Car (SDC) | Online | Nanodegree Program (1+ Terms) *Nov 2016 – April 2017*

Galvanize | San Francisco, CA | Data Science Immersive Bootcamp *Jun 2016 – Aug 2016*

Data ScienceTech Institute (DSTI) | Paris, France| MS Data Science (Select Courses) *Oct 2015 – May 2016*

General Assembly | San Francisco, CA | Part-Time Data Science Program *Oct 2014 – Dec 2014*

Lehigh University | Bethlehem, PA | B.S. Electrical Engineering (EE) *Aug 1995 – May 1999*

**EXPERIENCE**

**JP Morgan Chase (JPMC) | New York City, NY** *Nov 2017 – Present*

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

Responsible for improving the consumer personalization experience and suggestive nudges for Chase Products

* Develop scalable implicit recommendation ML Models (via Apache Spark and ML Pipelines) for *Chase Ultimate Rewards* via spending propensity and latent factor likewise redemptions, influencing business decisions
* Engage with LOB’s to deliver personalized engagement insights, launch and monitor deployed Chase card acquisition message underwriting and targeted ad spending-based *Campaigns*
* Establish scalable module platform reusable components (via Scala, Spark), encompassing tracking of data lineage across the analytical pipeline

**Skymind | San Francisco, CA** *May 2017 – Present*

*Deep Learning Consultant – Field Engineering, Training Education*

Responsible for improving the Deep Learning for Java (DL4J) Suite for Public and Vendor consumption

* Develop Vendor engagement feasibility studies per improving existing Deep Learning POC implementations for Industrial Automotive computer vision detection event scenarios
* Develop client POC applications to demonstrate the Skymind Intelligence Layer (SKIL) Model Serving capabilities from deployed CNN and LSTM native TensorFlow trained models for a large Home-Repair retailer vendor
* Present and create tailored learning DL4J Suite content for Enterprise Partner Vendors and Public Workshops

**Techstars | New York City, 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

* Lead technical company mentoring sessions and weekly group discussions
* Advise companies in systems architecture, benchmarking and scaling (via Apache Spark) their solution
* Advance company product offerings via solving or reducing bottlenecks and pain points in their data pipeline, further streamlining their solution to reduce errors and executing on multiple concurrent pilots

**Otto (Tyto Life) | San Mateo, CA** *Mar 2017 – Jun 2017*

*Data Scientist & Engineering Advisor – Product Division*

Responsible for enhancing the Connected Home Access Control consumer experience

* Drive data acquisition, measurement, and data science strategy for sensor (BLE, Radar) data across a variety of unit installation environments. Initial analysis is performed off-device (Python) while deployment is implemented on-device in firmware (C) via use of ARM Cortex-M (CMSIS) DSP library.
* Improve device/pedestrian detection confidence via denoising and smoothing RF sensory inputs
* 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 region inference via model 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 Proof of Concept (POC) designs centered around long-range distance detection, achieving similar results to Active RFID (100m+) via a disposable low cost Battery-Assisted Passive (BAP) RFID design

**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 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
* Facilitated multi-site coordination per vendor migration platform architecture from Linux to QNX to achieve successful WiMAX Certification

**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 multi-site technology reviews to assess processor requirements, identify next generation features, and improve upon current reference design implementations
* Advised OEMs in reference design architecture, custom BSP feature development, and best practices in achieving Third-Party Windows Mobile OS Logo Certification
* Enhanced systems performance initiatives, further optimizing boot time, performance monitors, and latency

**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*