

ARI KAMLANI

Data Scientist / Principal Engineer / Technology Strategist

San Francisco, CA

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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 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
- Cassandra, Elastic Search, Lucene
- Postgres, Neo4j, MongoDB, MySQL
- IBM SPSS, BigInsights, Bluemix
- SAS Enterprise Miner, Visual Analytics
- Git, Perforce, ClearCase, SVN, PVCS
- JIRA, Pivotal Tracker, Bugzilla, Doors
- DL4J, TensorFlow, Keras
- Sklearn, Spacy, NLTK, OpenCV
- Jupyter, Zeppelin, RStudio
- IntelliJ, Eclipse, Spyder, IPython
- AWS, MSFT Azure, Google GCP
- Flask, Play Framework
- D3.js, p5.js, Plotly
- Scala, Java, Python, R
- SQL, C, C++, UML, ARM
- JavaScript, Node.js
- HTML, CSS
- Maven, SBT
- 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) 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, further shaping ThoughtWorks Data Portfolio Offerings in Machine Intelligence. Clients vary across a diverse number of industries.

- Advise on Data Strategy, Design, Architecture, and Technology selection in modernizing and transforming Client Platforms, Products & Services, prioritizing effective tradeoffs and debt with the business objectives
- Develop Contextual Machine Intelligence solutions per Natural Language Processing (NLP) use cases such as Contextual Enterprise Search, Document Classification, Entity Extraction
- Guide strategic technical assessments in facilitating client acquisition, technical feasibility and maturity
- Lead Data Discovery & Inception project workshops to align technical delivery with expectations and outcomes

SkyMind | San Francisco, CA

May 2017 – Present

Deep Learning Engineering Consultant – Solutions Architecture

Responsible for improving the Deep Learning for Java (DL4J) Suite and SkyMind Intelligence Layer (SKIL) for Community and Enterprise Vendor Partner consumption

- Assist in Enterprise Customer Technical Architecture in developing solutions around SkyMind's offerings
- Present and create tailored learning DL4J suite 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