# ARI KAMLANI
## DATA SCIENTIST | PRINCIPAL ENGINEER

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San Francisco, CA

*Data Scientist*, Principal Engineer, skilled in delivering strategic large-scale projects, with particular attention to alleviating user and technology pain points. Prior domain expertise includes IoT, wireless technology, consumer electronics, sports technology, broadcast media, and people access control.

## EDUCATION

Udacity Self-Driving Car (SDC) | Online | Enrolled Nov 2016 | Nanodegree
Data Science Tech Institute (DSTI) | Paris, France | Oct 2015 – May 2016 | Part-Time Data Scientist Program
General Assembly | San Francisco, CA | Oct 2014 – Dec 2014 | Part-Time Data Science Program
Lehigh University | Bethlehem, PA | Aug 1995 – May 1999 | B.S. Electrical Engineering (EE)

## TECHNICAL SKILLS

### Distributed Systems, Enterprise
- Apache Spark, Hadoop, MapReduce
- SAS Enterprise Miner, Visual Analytics
- IBM BigInsights, SPSS Modeler
- AWS EC2, S3
- IBM Bluemix, Watson

### Data Analysis
- Postgres, MySQL, SQLite, MongoDB
- Jupyter, Zeppelin, RStudio, Rodeo
- IPython, IntelliJ, Spyder, Eclipse
- Scikit-learn, NLTK, GraphLab
- TensorFlow, Keras, Theano

### Programming
- Python, Scala, R, SQL
- C, C++, ARM, UML, OCL
- Javascript, Squirrel
- HTML, CSS, Markdown
- D3.js, Bootstrap, Jekyll

## 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*

## EXPERIENCE

**Galvanize | San Francisco, CA**                                           *June 2016 – Aug 2016*
*Data Science Fellow – Immersive Bootcamp Program*
Practical immersive program concentrating on data science pipelines and machine learning algorithms via Python
- Successfully delivered Cooper Hewitt museum capstone project providing insights into visitor tracking behavior patterns utilizing Apache Spark, GraphX/GraphFrames, Scikit-learn, and SciPy core libraries.
- Developed peer case studies regarding fraud detection, churn prediction and recommendation engines
- Applied industry standards methods in machine learning algorithms, natural language processing, distributed systems, statistical analysis, and experimental design

**Inria Research Institute | Sophia Antipolis, France**                     *Jan 2016 – Apr 2016*
*Part-Time Research Assistant – STARS (Spatio-Temporal Activity Recognition Systems) Research Team*
Responsible for improving computer vision semantic scene interpretations per healthcare diagnosis for the elderly
- Enhanced event recognition models of manually identified zones resulting in improved accuracy detection
- Improved structure interpretation of unsupervised zone predictions providing additional scene context

**Nagra Kudelski Group | San Francisco, CA**                                *Sep 2012 – May 2015*
*Software Expert – Group Innovation & Incubation*
Responsible for future technology and 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 on long-range distance detection, achieving similar results to Active RFID 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
- Evaluated and recommended alternative SoC peripherals and staged implementation performance methods
- Successfully delivered customized Embedded Linux Kernel (2.6.35) and Root Filesystem (RFS) distribution to improve stability and performance of predecessor system, notably reducing crashes, latency, and boot-time
- Introduced mechanisms per critical health diagnosis detection in the field and update images 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 roadmap features
- Managed multi-site coordination per customer (RIM) migration platform architecture from Linux to QNX to achieve successful WiMAX certification

**Qualcomm | Raleigh, NC** *Aug 2007 – Jan 2010*
*Staff Engineer – Computing and 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 custom feature development and certification aspects
- Enhanced systems performance initiatives, further optimizing boot time, performance monitors, and latency

**Previous Experiences:**
TapRoot Systems | Morrisville, NC | July 2003 – Aug 2007 | Principal Engineer/Lead – Mobile Products & Services
Panasonic Mobile Communications | Suwanee, GA | Apr 2000 – July 2003 | Senior Engineer – Mobile Platforms
Verizon Wireless | Plymouth Meeting, PA | Sep 1999 – Feb 2000 | RF Engineer – Systems Performance

## Additional Skills
*Project/Requirements Mgmt*    Agile Scrum (Pivotal Tracker), Doors
*SCM/Tracking*    Git, Perforce, ClearCase, ClearQuest, SVN, PVCS, Bugzilla
*Platforms/OS*    Linux/Unix, Android, Mac OS X, Windows/Windows Mobile/WinCE