

# ARI KAMLANI

DATA SCIENTIST / PRINCIPAL ENGINEER

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San Francisco, CA

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Data Scientist, and Principal Engineer with 15+ years of experience, delivering strategic large-scale projects. Focused on advancing industry initiatives per alleviating user and technology pain points. Prior domain expertise includes IoT, Wireless Technology, and Semiconductor Reference designs.

## EDUCATION

Data ScienceTech 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

- Apache Spark
- Apache Hadoop, MapReduce
- AWS EC2 + S3
- IBM Bluemix
- IBM BigInsights

### Data Analysis

- SAS Enterprise Miner, Visual Analytics
- IBM SPSS Modeler, Watson
- Jupyter, Zeppelin, RStudio, Rodeo
- IPython, IntelliJ, Spyder, Eclipse
- Scikit-learn, NLTK, GraphLab

### Programming

- Python, R, Scala, SQL
- C, C++, ARM, UML, OCL
- PostgreSQL, MongoDB, SQLite
- Javascript, HTML, CSS
- D3.js, Bootstrap, Jekyll

## PATENTS

- Interference Control in Wireless Communication; United States 9,357,404 | Awarded 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 behavior patterns utilizing Apache Spark, GraphX/GraphFrames and a variety of machine learning algorithms.
- Developed peer case studies regarding credit 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

Computer vision semantic scene interpretation per preventive care and 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 – Oct 2015

Software Expert – Group Incubation & Innovation

Responsible for future technology and application advancement 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**Embedded Software Consultant – Motorsports Division*

Special Projects Consultant reporting to the office of CTO per Motorsports (NASCAR Trucks) division, advising in the development of vehicle tracking, local base station communication, and sensor measurement

- Advised SoC peripheral selections, prioritized feature development actions in successful POC execution
- 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
- Provided critical features to diagnose defects 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 next generation mobile platform processor architecture, requirements and integration of vendor Voice over LTE (VoLTE) stack to improve product offering
- 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 access 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, to further optimize boot time, performance monitors and latency

**Previous Experiences:**

TapRoot Systems | Morrisville, NC | 2003-2007 | Principal Engineer/Technical Lead – Mobile Products and Services

Panasonic Mobile Communications | Suwanee, GA | 2000-2003 | Senior Software Engineer – Mobile Platforms

Verizon Wireless | Plymouth Meeting, PA | 1999-2000 | RF Systems Performance 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, MacOS X, Windows/Windows Mobile/WinCE