

**ARI KAMLANI**



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**DATA SCIENTIST ✦ TECHNOLOGIST ✦ STRATEGIST**

*Group Incubation & Innovation ✦ Research*

Solutions-oriented Technologist transitioned to *Data Scientist* with 15+ years of overall experience developing innovative engineering solutions, formulating strategic opportunities, providing technology assessment, Proof of Concept (POC) designs, and independent research. Skilled in providing effective leadership in fast-paced, deadline driven environments through clear communication that fosters a client focused environment. Superior hands-on technical capabilities combined with a proven history of success at delivering large-scale challenging projects. Articulate communicator with strong written and verbal interpersonal skills, working closely with clients to maximize goals.

**SELECTED HIGHLIGHTS**

- Strong focus on alleviating user and technology pain points for new advancements and ideation
- Initiate new project proposals to executive board for formation of new business units
- Create new strategic partner relationships to facilitate project development
- Engage in Cross-disciplinary Technical Reviews
- Develop new initiatives to optimize end-to-end systems communication performance

**EDUCATION**

**Lehigh University, Bethlehem, Pennsylvania**

*Bachelor of Science in Electrical Engineering (1999)*

**Data ScienceTech Institute (DSTI) – Paris, France**

*Data Scientist Designer (Oct 2017)*

**Select Trainings:**

Distributed Computing with Apache Spark (1.6.1) - Focused on Scala

IBM Analytics Ecosystem: IBM Watson, Bluemix, SPSS Modeler

SAS Enterprise Miner, Visual Analytics

**Certifications:**

Part-Time Data Science Program Certification: (General Assembly, 2014)

Scalable Machine Learning (Apache Spark - PySpark): (edX, 2015)

Enabling Technologies for Data Science and Analytics - The Internet of Things: (edX, 2016)

**Independent Coursework/Workshops:**

Big Data, Data Science, Machine Learning, Artificial Intelligence, Sabermetrics

Creativity & Innovation, Idea Incubation, Design Thinking

**NOTABLE PROJECTS**

**Inria Research Institute ✦ Sophia Antipolis, France ✦ Jan 2016 – Mar 2016**

*French research institute specializing in Computer Science and Automation*

**Part-Time Research – STARS (Spatio-Temporal Activity Recognition Systems) Research Team**

Improve upon computer vision Semantic Scene interpretation per preventive care and diagnosis for the elderly.

- Improve event recognition models of manual identified zones in the home
- Identify and resolve defects for interpretation of missing ground truth scenarios

## PROFESSIONAL EXPERIENCE

### **Nagra Kudelski Group ✦ San Francisco, CA ✦ 2012-2015**

*Leader in digital television, digital security, and public access control*

#### **Software Expert - Group Innovation**

Technologist within R&D Innovation Group responsible for future Technology and Application Advancement, with the group reporting directly to the owner.

- Created project proposals and presentations to present to executive board, drawing on research findings, best practices and collaborative ideas from a team with diverse expertise.
- Brainstormed new ideas in relation to Intellectual Property (IP), creation of Patents, and formation of new business units.
- Executed multiple future generation technology research and assessment special project directives requested via the owner.
- Formulated new strategic Partner Vendor relationships to strengthen selected projects.
- Led Proof of Concept (POC) designs centered around low cost Long Range People Tracking. Design was focused on achieving the Active RFID range benefits with a Battery-Assisted Passive (BAP) RFID design, in a disposable low cost form factor.

### **SPORTVISION ✦ Mountain View, CA ✦ 2011-2012**

*Leader in sports technology and broadcast media entertainment products and solutions*

#### **Embedded Software Consultant - Motorsports Division**

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

- Successfully developed custom in-house Embedded Linux Kernel (2.6.35) and root filesystem distribution.
- Achieved enhanced communication signaling between OMAP (OMAP3530) and AVR (Atmel).
- Decreased system boot time and improved system stability issues.
- Designed a custom feature that allowed for remote update images in Flash.

### **Broadcom ✦ Sunnyvale, CA ✦ 2011**

*From acquisition of Beceem Communications – Cellular division specializing in WiMAX and LTE*

#### **Principal Engineer – Systems Engineering, Cellular Division**

Responsible for WiMAX and LTE radio network driver systems software architecture mobile reference designs.

- Directed platform requirements, architecture, and integration of vendor Voice over LTE (VoLTE) stack into reference design platforms (BCM21890, BCM Capri).
- Managed customer (RIM) migration platform architecture (OMAP 3530, 4430) from Linux to QNX.
- Led multi-site customer and group project management task coordination.
- Guided technology teams per next generation mobile platform processor architecture and requirements.

### **Qualcomm ✦ Raleigh, NC ✦ 2007-2010**

*Large international designer and manufacturer of next-generation digital mobile technologies*

#### **Staff Engineer – Computing and Consumer Product Division**

Responsible for Windows Mobile (6.1/7) board bring-up and board support package (BSP) reference design software for the Snapdragon ARM Cortex architecture processors.

- Collaborated with multi-site technology teams to access processor requirements, develop new features, and integrate software from predecessor baselines. Engaged in cross-disciplinary technical reviews to improve upon hardware defects and timing issues.
- Delivered systems performance initiatives, e.g. boot time, system load ordering, perform monitors and latency.
- Enhanced feature development for the kernel, bootloader, device drivers and sensor slave devices.
- Advised OEMs in custom feature development and successfully achieving certification requirements.

**TapRoot Systems ✦ Morrisville, NC ✦ 2003-2007**

*Provider of embedded software, specializing in Telephony, Wi-Fi, and BSP reference design services*

**Principal Engineer/Technical Lead – Mobile Products and Services**

Responsible for leading early mobile Wi-Fi (802.11 a/b/g) wireless stack and BSP reference design deliverables.

- Delivered multiple OEM certified (Wi-Fi Alliance) secure (802.1x, WPA, WPA2) wireless stack designs and integration into the Symbian reference design for various Wi-Fi peripherals.
- Led Qualcomm reference design Windows Mobile service contract system software and subsystem deliverables (GPS, AP/BP communication, SD/SDIO) for the MSM7200/7500 processor series.
- Facilitated business development activities with OEM Presales support, reviewing Statement of Works (SOWs), and supporting RFI/RFP efforts.
- Strengthened cross-project process improvement initiatives, assisted in vendor and tool selections

**Additional Experiences:**

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

Verizon Wireless, Plymouth Meeting, PA: 1999-2000, RF Systems Performance Engineer

TECHNICAL SKILLS	
<b>Desktop Applications</b>	Microsoft Office, Libre Office
<b>Frameworks</b>	Foundation, Bootstrap, Jekyll
<b>OOD Modeling</b>	UML, OCL
<b>Project Management</b>	Agile Scrum (Pivotal Tracker)
<b>Requirements Management</b>	Doors
<b>SCM/Tracking Applications</b>	Git, Perforce, ClearCase, ClearQuest, SVN, PVCS, Bugzilla, PVCS
<b>Distributed Systems</b>	Apache Spark (1.6.1)
<b>Data Analysis</b>	Jupyter (IPython), R Studio, Zeppelin
<b>SAS</b>	SAS Enterprise Miner, SAS Visual Analytics
<b>Databases</b>	MySQL, SQLite, PostgreSQL
<b>Programming</b>	C, C++, Python, R, Scala, Javascript, Perl, Squirrel, SQL, HTML, CSS, ARM, VHDL
<b>Operating Systems</b>	Linux/Unix, QNX, Nucleus Plus, Windows Mobile, WinCE, Symbian
<b>IDE/ICE</b>	Eclipse, IntelliJ, GDB, Trace32 Lauterbach, QNX Momentics IDE, Microsoft Visual Studio, Platform Builder, ARM Development Suite, Rational Rose RT, CodeWarrior

ADDITIONAL CREDENTIALS	
<b>PATENTS</b>	<ul style="list-style-type: none"><li>▪ Interference Control in Wireless Communication; United States 13/887,039 (Filed: 05/03/2013)</li><li>▪ Device Localization Based On a Learning Model; United States 14/311,077 (Filed: 06/20/2014)</li></ul>
<b>INDUSTRY EXPERTISE</b>	Consumer Electronics, Sports Technology, Media & Entertainment