ARI KAMLANI

DATA SCIENTIST | PRINCIPAL ENGINEER
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San Francisco, CA

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 workflows 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 machine learning algorithms from Scikit-learn and SciPy.
- 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 office of CTO for 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 into reference designs 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
- Enhanced systems performance initiatives, to further optimize boot time, performance monitors and latency
- Advised OEMs in custom feature development and in successfully achieving certification requirements

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, Mac OS X, Windows/Windows Mobile/WinCE