ARI KAMLANI

DATA SCIENTIST | PRINCIPAL ENGINEER
@akamlani ❖ arikamlani.com
(415) 926-1221 ✉ akamlani@gmail.com
San Francisco, CA

Data Scientist, Principal Engineer skilled in delivering strategic large-scale and early-stage projects, with particular attention to alleviating user and technology pain points. Experienced in driving new strategic business initiatives, delivering R&D POC designs, and developing client/vendor engagements.

EDUCATION

Udacity Self-Driving Car (SDC) | Online | Nanodegree Program — *Nov 2016 – Jul 2017*
Galvanize | San Francisco, CA | Data Science Immersive Bootcamp — *Jun 2016 – Aug 2016*
Data ScienceTech Institute (DSTI) | Paris, France | Part-Time Data Scientist Program — *Oct 2015 – May 2016*
General Assembly | San Francisco, CA | Part-Time Data Science Program — *Oct 2014 – Dec 2014*
Lehigh University | Bethlehem, PA | B.S. Electrical Engineering (EE) — *Aug 1995 – May 1999*

TECHNICAL SKILLS

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

Data Analysis
- Postgres, MySQL, SQLite, MongoDB
- Jupyter, Zeppelin, RStudio, Rodeo
- IPython, IntelliJ, Spyder, Eclipse
- Sklearn, NLTK, GraphLab, OpenCV
- TensorFlow, Keras

Programming/Languages
- 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 — *Jun 2014*

EXPERIENCE

Galvanize | San Francisco, CA — *Jun 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 capstone project providing insights into visitor tracking behavior patterns utilizing graphical network analysis (Apache Spark GraphX/GraphFrames) and hierarchical clustering algorithms
- 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*
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 region inference via model architecture fine-tuning and hyperparameter optimization

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 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

- Advised the vehicle tracking and sensory measurement migration from Computer Vision detection to GPS localization to improve accuracy during challenging weather conditions
- Successfully delivered customized Embedded Linux Kernel and Root Filesystem (RFS) distribution to improve stability and performance of predecessor system, notably reducing 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 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 & 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 | 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*

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