ARI KAMLANI
DATA SCIENTIST | PRINCIPAL ENGINEER
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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	*Data Analysis*	*Programming*
▪ Apache Spark, Hadoop, MapReduce	▪ Postgres, MySQL, SQLite, MongoDB	▪ Python, Scala, R, SQL
▪ SAS Enterprise Miner, Visual Analytics	▪ Jupyter, Zeppelin, RStudio, Rodeo	▪ C, C++, ARM, UML, OCL
▪ IBM BigInsights, SPSS Modeler	▪ IPython, IntelliJ, Spyder, Eclipse	▪ JavaScript, Squirrel
▪ AWS EC2, EMR, S3	▪ Sklearn, NLTK, GraphLab, OpenCV	▪ HTML, CSS, Markdown
▪ IBM Bluemix, Watson	▪ TensorFlow, Keras	▪ 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/zone classifications for semantic ontology event representation and analysis
- Improved scenario activity recognition model temporal pattern irregularities via accounting for prior window contextual sequences
- Enhanced event recognition models resulting in improved accuracy detection and reduced false positives

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 vehicle tracking and sensory measurement in 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