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. Prior domain expertise includes IoT, wireless technology, consumer electronics, sports technology, broadcast media, and people access control.

EDUCATION

Udacity Self-Driving Car (SDC) | Online | Enrolled Nov 2016 | Nanodegree
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, Enterprise
- Apache Spark, Hadoop, MapReduce
- SAS Enterprise Miner, Visual Analytics
- IBM BigInsights, SPSS Modeler
- AWS EC2, S3
- IBM Bluemix, Watson

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

Programming
- 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 *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 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*
Part-Time Research Assistant – STARS (Spatio-Temporal Activity Recognition Systems) Research Team
Responsible for improving computer vision semantic scene interpretations per healthcare diagnosis for the elderly
- Enhanced event recognition models of segmented regions/zones resulting in improved accuracy detection
- Improved temporal pattern irregularities of scenario recognition models via prior contextual sequences

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

- Evaluated and recommended alternative SoC peripherals and staged implementation performance methods
- 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 mechanisms per critical health diagnosis detection 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 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 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 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 | July 2003 – Aug 2007 | Principal Engineer/Lead – Mobile Products & Services
Panasonic Mobile Communications | Suwanee, GA | Apr 2000 – July 2003 | Senior Engineer – Mobile Platforms
Verizon Wireless | Plymouth Meeting, PA | Sep 1999 – Feb 2000 | RF 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