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. Proficient in building end-to-end analytical scalable pipelines, comprised of both structured and unstructured data, utilizing state of the art Machine Learning and Deep Learning algorithms.

TECHNICAL SKILLS

Enterprise/Tools

- Apache Spark, Hadoop
- AWS EC2, EMR, S3
- SAS Enterprise Miner, Visual Analytics
- IBM BigInsights, SPSS, Bluemix, Watson
- Git, Perforce, ClearCase, SVN, PVCS
- Pivotal Tracker, Doors, Bugzilla

Data Analysis/Frameworks

- Postgres, MySQL, SQLite, MongoDB
- Jupyter, Zeppelin, RStudio, Rodeo
- IPython, IntelliJ, Spyder, Eclipse
- Sklearn, NLTK, GraphLab, OpenCV
- TensorFlow, Keras
- D3.js, p5.js, Plotly

Programming/Platforms

- Python, Scala, R, SQL
- C, C++, ARM, UML, OCL
- HTML, CSS, Markdown
- JavaScript, Node.js
- Bootstrap, Jekyll
- Linux, QNX, WinCE

PATENTS

Interference Control in Wireless Communication; United States 9,357,404 | Issued

Device Localization Based on a Learning Model; United States 14/311,077 | Filed

May 2016

Jun 2014

EDUCATION

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

Nov 2016 - Aug 2017 Jun 2016 - Aug 2016 Oct 2015 - May 2016 Oct 2014 - Dec 2014

EXPERIENCE

Galvanize | San Francisco, CA

Data Science Fellow – Immersive Bootcamp Program

Jun 2016 – Aug 2016

- 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 optimization

Nagra Kudelski Group | San Francisco, CA

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 (300+ ft) via a disposable low cost Battery-Assisted Passive (BAP) RFID design

Sportvision | Mountain View, CA

Oct 2011 - Apr 2012

Sep 2012 - May 2015

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 IMU enabled 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
- Facilitated 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 reference design architecture, custom BSP feature development, and best practices in achieving Third-Party Windows Mobile OS Logo Certification
- Enhanced systems performance initiatives, further optimizing boot time, performance monitors, and latency

Previous Experiences:

TapRoot Systems | Morrisville, NC | Principal Engineer/Lead – Mobile Products & Services

Panasonic Mobile Communications | Suwanee, GA | Senior Engineer – Mobile Platforms

Verizon Wireless | Plymouth Meeting, PA | RF Engineer – Systems Performance

Jul 2003 – Aug 2007

Apr 2000 – Jul 2003

Sep 1999 – Feb 2000