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**DATA SCIENTIST 🟇 TECHNOLOGIST 🟇 STRATEGIST**

*Group Incubation & Innovation 🟇 Research*

Solutions-oriented Technologist transitioned to *Data Scientist* with 15+ years of overall experience developing innovative engineering solutions, formulating strategic opportunities, providing technology assessment, Proof of Concept (POC) designs, and independent research. Skilled in providing effective leadership in fast-paced, deadline driven environments through clear communication that fosters a client focused environment. Superior hands-on technical capabilities combined with a proven history of success at delivering large-scale challenging projects. Articulate communicator with strong written and verbal interpersonal skills, working closely with clients to maximize goals.

**Selected Highlights**

* Strong focus on alleviating user and technology pain points for new advancements and ideation
* Initiate new project proposals to executive board for formation of new business units
* Create new strategic partner relationships to facilitate project development
* Engage in Cross-disciplinary Technical Reviews
* Develop new initiatives to optimize end-to-end systems communication performance

**Education**

**Galvanize – San Francisco, CA**

*Data Science Immersive Bootcamp (Jun 2016-Aug 2016) Program*

**Data ScienceTech Institute (DSTI) – Paris, France**

*Part-Time Data Scientist Designer (Oct 2015-May 2016) Program*

**General Assembly – San Francisco, CA**

*Part-Time Data Science (Oct 2014 – Dec 2014) Program*

**Lehigh University - Bethlehem, Pennsylvania**

*Bachelor of Science in Electrical Engineering (1999)*

**Select Recent Trainings (Paris, France):**

Distributed Computing with Apache Spark (1.6.1) - Focused on Scala

IBM Analytics Ecosystem

SAS Enterprise Miner, Visual Analytics

**MOOC Certifications:**

Scalable Machine Learning (Apache Spark - PySpark): (edX, 2015)

Enabling Technologies for Data Science and Analytics - The Internet of Things: (edX, 2016)

**Independent Coursework/Workshops:**

Big Data, Data Science, Machine Learning, Artificial Intelligence, Sabermetrics

Creativity & Innovation, Idea Incubation, Design Thinking

**Notable Projects**

**Inria Research Institute 🟇 Sophia Antipolis, France 🟇 Jan 2016 – Mar 2016**

*French research institute specializing in Computer Science and Automation*

**Part-Time Research – STARS (Spatio-Temporal Activity Recognition Systems) Research Team**

Computer vision Semantic Scene interpretation per preventive care and diagnosis for the elderly.

* Improve event recognition models of manually identified zones in the home
* Improve structure interpretation of missing ground truth scenarios

**Professional Experience**

**Nagra Kudelski Group 🟇 San Francisco, CA 🟇 2012-2015**

*Leader in digital television, digital security, and public access control*

**Software Expert - Group Innovation**

Technologist within R&D Innovation Group responsible for future Technology and Application Advancement, with the group reporting directly to the owner.

* Created project proposals and presentations to present to executive board, drawing on research findings, best practices and collaborative ideas from a team with diverse expertise.
* Brainstormed new ideas in relation to Intellectual Property (IP), creation of Patents, and formation of new business units.
* Executed multiple future generation technology research and assessment special project directives requested via the owner.
* Formulated new strategic Partner Vendor relationships to strengthen selected projects.
* Led Proof of Concept (POC) designs centered around low cost Long Range People Tracking. Design was focused on achieving the Active RFID range benefits with a Battery-Assisted Passive (BAP) RFID design, in a disposable low cost form factor.

**SPORTVISION 🟇 Mountain View, CA 🟇 2011-2012**

*Leader in sports technology and broadcast media entertainment products and solutions*

**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.

* Successfully developed custom in-house Embedded Linux Kernel (2.6.35) and root filesystem distribution.
* Achieved enhanced communication signaling between OMAP (OMAP3530) and AVR (Atmel).
* Decreased system boot time and improved system stability issues.
* Designed a custom feature that allowed for remote update images in Flash.

**Broadcom 🟇 Sunnyvale, CA 🟇 2011**

*From acquisition of Beceem Communications – Cellular division specializing in WiMAX and LTE*

**Principal Engineer – Systems Engineering, Cellular Division**

Responsible for WiMAX and LTE radio network driver systems software architecture mobile reference designs.

* Directed platform requirements, architecture, and integration of vendor Voice over LTE (VoLTE) stack into reference design platforms (BCM21890, BCM Capri).
* Managed customer (RIM) migration platform architecture (OMAP 3530, 4430) from Linux to QNX.
* Led multi-site customer and group project management task coordination.
* Guided technology teams per next generation mobile platform processor architecture and requirements.

**Qualcomm 🟇 Raleigh, NC 🟇 2007-2010**

*Large international designer and manufacturer of next-generation digital mobile technologies*

**Staff Engineer – Computing and Consumer Product Division**

Responsible for Windows Mobile (6.1/7) board bring-up and board support package (BSP) reference design software for the Snapdragon ARM Cortex architecture processors.

* Collaborated with multi-site technology teams to access processor requirements, develop new features, and integrate software from predecessor baselines. Engaged in cross-disciplinary technical reviews to improve upon hardware defects and timing issues.
* Delivered systems performance initiatives, e.g. boot time, system load ordering, perform monitors and latency.
* Enhanced feature development for the kernel, bootloader, device drivers and sensor slave devices.
* Advised OEMs in custom feature development and successfully achieving certification requirements.

**TapRoot Systems 🟇 Morrisville, NC 🟇 2003-2007**

*Provider of embedded software, specializing in Telephony, Wi-Fi, and BSP reference design services*

**Principal Engineer/Technical Lead – Mobile Products and Services**

Responsible for leading early mobile Wi-Fi (802.11 a/b/g) wireless stack and BSP reference design deliverables.

* Delivered multiple OEM certified (Wi-Fi Alliance) secure (802.1x, WPA, WPA2) wireless stack designs and integration into the Symbian reference design for various Wi-Fi peripherals.
* Led Qualcomm reference design Windows Mobile service contract system software and subsystem deliverables (GPS, AP/BP communication, SD/SDIO) for the MSM7200/7500 processor series.
* Facilitated business development activities with OEM Presales support, reviewing Statement of Works (SOWs), and supporting RFI/RFP efforts.
* Strengthened cross-project process improvement initiatives, assisted in vendor and tool selections

**Additional Experiences:**

Panasonic Mobile Communications, Suwanee, GA: 2000-2003, Senior Software Engineer - Mobile Platforms

Verizon Wireless, Plymouth Meeting, PA: 1999-2000, RF Systems Performance Engineer

**Technical Skills**

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| **Desktop Applications** | Microsoft Office, Libre Office |
| **Frameworks** | Bootstrap, Foundation, Jekyll |
| **OOD Modeling** | UML, OCL |
| **Project Management** | Agile Scrum (Pivotal Tracker) |
| **Requirements Management** | Doors |
| **SCM/Tracking Applications**  **Distributed Systems**  **Data Analysis**  **SAS** | Git, Perforce, ClearCase, ClearQuest, SVN, PVCS, Bugzilla, PVCS  Apache Spark (1.6.1)  Jupyter (IPython), Yhat Rodeo, R Studio, Zeppelin  SAS Enterprise Miner, SAS Visual Analytics |
| **Databases**  **Programming** | SQLite, PostgreSQL, MySQL,  C, C++, Python, R, Scala, Javascript, Perl, Squirrel, SQL, HTML, CSS, ARM, VHDL |
| **Operating Systems** | Linux/Unix, QNX, Nucleus Plus, Windows Mobile, WinCE, Symbian |
| **IDE/ICE** | Eclipse, IntelliJ, Spyder, GDB, Trace32 Lauterbauch, QNX Momentics IDE, Microsoft Visual Studio, Platform Builder, ARM Development Suite, Rational Rose RT, CodeWarrior |
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**Additional Credentials**

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| Patents | * Interference Control in Wireless Communication; United States 13/887,039  (Filed: 05/03/2013) * Device Localization Based On a Learning Model; United States 14/311,077  (Filed: 06/20/2014) |