

# RAJANBABU RAJARAMAN

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Business Lead with a passion to solve complex issues. Curiosity and ability to analyze with large sets of structured, semi-structured, and raw data. Team-oriented individual with strengths in analytical problem solving and collaborating across diverse groups.

## SUMMARY OF QUALIFICATIONS

- Over 18 years of extensive experience working in **the wireless industry with Vendor management.**
- **Managed Regional training program** inclusive of courses allocation, Budget plan
- Expertise in **Project management** – Efficient Tracking and reporting
- Leadership certification and **Agile Program – Project management certifications**
- 15+ years of experience working as Lead for **RAN /CORE Telecom** network projects
- 4+ years Responsibility for Design, Development & Testing of VHF & UHF Antennas
- 2+ years of developing **competitive insights** for Telecom operators
- 5+ years of experience utilizing **Data Visualization, Analytic and SW Tools.**
- **Expert with C-RAN, CBRS, Massive MIMO, NFV, SDN, IoT, API, Cloud Computing, Big Data, Machine-Learning, and Tableau / Power BI tools.**
- Expertise in Planning, Design, Implementation, Optimization, and Performance - 4G /5G
- Expertise in **end-to-end network architecture and Virtualized Platform** principles.

## TECHNICAL SKILLS

**Languages:** Python, R, JavaScript ES6+, HTML5, SQL, NoSQL

**Applications:** GitHub, MongoDB, MySQL, PostgreSQL, GIT, AWS, Flask, **Tableau**

**Tools:** Excel, Seaborn, Scikit learn, TensorFlow, Databasing, Pandas, Jupyter Notebook

**Analysis - Alteryx, Tableau, Power BI, ATOLL, PLANET EV, ACTIX, TEMS, NetAct, Arieso**

## PROJECTS

**Data Engineering Sqlalchemy | Written link to [GitHub](#)**

Investigation on climate (Hawaii) data analysis and data exploration.

- Tools: Python, Pandas, SQLAlchemy, NumPy, PostgreSQL, PrimaryKeys, ForeignKeys

**Python Data Visualization | Written link to [GitHub](#)**

Investigation of data analysis of financial records of Bank and US vote-counting process.

- Tools: Python, Jupyter Notebook

**Visualizing dashboard website| Written link to [GitHub](#)**

Dynamic website application to visualize Landing and Comparisons pages with Navbar.

- Tools: HTML, CSS, JS, Leaflet.js, JavaScript

## WORK EXPERIENCE

### SR Engineer (Research & Solutions) IHS' MARKIT

2018 -2020

- Research & Solutions Team, and Radio Access technology - an independent and consumer-focused benchmarking division of IHS Markit
- Develop competitive insights for significant carriers (**Verizon, BT, T-Mobile & AT&T**) based on field testing of emerging technologies and feature deployments by Operators such as **5G NR (FDD, TDD Sub6, mm Wave), NB-IoT, LTE-Advanced, Massive MIMO**
- Support Pre-& Post-Sales customer relationships and Product innovation roadmap
- Performance validation and RF Data analytics – Tableau, LMA Wireless metrics analysis

### Professional RAN Engineer AT& T, Redmond

2010 – 2018

- **RF design responsibility for ND and MN markets** and played a crucial role in support of Zodiac project (3G / 4G sites)
- UL noise mitigation project - Regional uplink monthly completion goal.
- **Vendor management**, External interference, PIM, and post-Performance validation.
- Managed Regional training program inclusive of courses allocation, Budget plan.
- **KPI Acute analysis**, Traffic validation, and DCR Degradation for the PNW market.
- Preliminary triage analysis, Tracking projects with our internal partners
- Performed Traffic simulation, Neighbor list generation, scrambling code, and PCI planning (LTE) using Atoll
- Capacity trigger and coverage enhancement sites for three-year forecast plan
- RF safety coordination and FCC license validation

### SR RF Engineer Alltel / Western Wireless, Bellevue/ WFI

2004 - 2010

- Responsible for handling RF Design and Optimization for North Dakota and MN market
- Cost-effective **Capacity and Budget plan** for the World Hockey Tournament in ND
- Candidates Evaluation inclusive of Search rings (SARF) release
- Improved the statistics through timely deployment and capacity enhancements
- Responsible for current spectrum utilization and preservation of PCS license.
- CGSA Unserved Territory analysis. Extension Agreements and Frequency Coordination
- Performed antenna mod design to improve the Performance for identified QOS areas
- **Model tuning**, Frequency Planning for augmenting the WWC Site capacity.
- Site Survey, Calibration, and E911 Accuracy Test inclusive of Functionality Test

## EDUCATION

### **Certificate, Data Analytics**

University of Denver

### **Bachelor of Engineering, Electronics**

Anna University, India

### **Master of Business Administration, Operations Management**

IGNOU University, India