**RAJANBABU RAJARAMAN**

Phone: (206) 531-5666 | Email: [rajanbabu.rajaraman@gmail.com](mailto:rajanbabu.rajaraman@gmail.com) | Sammamish, WA, 98075|

LinkedIn: [/rajanbabur](https://www.linkedin.com/in/rajanbabu-rajaraman-b263034%20%20)  | GitHub: [/rajanbabur](https://github.com/raj-cmyk)

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**](https://github.com/raj-cmyk/sqlalchemy-challenge)

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

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

**Python Data Visualization | Written link to** [**GitHub**](https://github.com/raj-cmyk/python-challenge)

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**](https://github.com/raj-cmyk/Web-Design-Challenge)

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

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

**WORK EXPERIENCE**

**SR Engineer (Research &Solutions)** 2018 -2020

**IHS' MARKIT**

* 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** 2010 – 2018

**AT& T, Redmond**

* **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**  2004 - 2010

**Alltel / Western Wireless, Bellevue/ WFI**

* 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