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|  |  | Shafin Mohammed  RF Engineer | Python Developer |
| Profile RF Engineer with 5-year experience in various LTE/Small Cell/DAS projects. Python developer with 1-year experience in Django web framework, data visualization and machine learning. Contact PHONE:  530-902-0579  [LinkedIn](https://www.linkedin.com/in/shafin-mohammed-50615447/)  EMAIL:  [shafinmohammed@gmail.com](mailto:shafinmohammed@gmail.com) RF SKills **Technologies:**   * LTE * WCDMA/UMTS * GSM   **Tools:**   * iBwave * SeeHawk * TEMS Pocket * ATOLL * Roofview   **Certifications:**   * iBwave Level 1 & 2 * Corning ONE Level 1 * JMA Teko DAS  SOFTWARE DEVELOPMENT SKills **Coding Language:**   * Python   **Web Framework:**   * django * django REST Framework   **Web Development:**   * HTML * CSS * JavaScript: jQuery, React(beginner)   **Databases:**   * PostgreSQL * SQLite   **APIs:**   * Stripe * Google Map * Mapbox   **Web Applications:**   * Github * Heroku * AWS S3 * Postman |  | EDUCATION  |  |  | | --- | --- | | Undergraduate:*George Mason University, VA* September 2009 – May 2012  Electrical Engineering  GPA: 3.35 | Graduate:*George Mason University, VA* January 2015 – May 2017  Telecommunications  GPA: 3.75 |  WORK EXPERIENCETelnet-inc, Rockville, MD,*RF Engineer, June 2012-April 2016*  * **EME:** Part of a Electromagnetic Emissions (EME) Compliance team in different AT&T, T-Mobile and Verizon markets. Used raw EME data from various client antenna sites to create EME reports and perform Computer Modeling & Calculation using “Roofview” a software analysis tool for evaluating radio frequency (RF) field levels at rooftop telecommunications sites analysis to ensure the sites are FCC compliant. Recommend signage and exposure blocking barriers based on OSHA RF standards on Radio Frequency (RF).  Mobilitie LLC, Atlanta, GA,*RF Engineer, April 2016–November 2017*  * **DAS Commissioning:** Attended and monitored DAS Commissioning process. Worked with the commissioning engineer to gain key insight on in-building infrastructure and DAS optimization. Derived front-end link budget calculations from iBwave design to make sure target pilot power was reached. * **DAS Benchmark & Optimization:** Performed drive/walk tests for Benchmark reports using SeeHawk and TEMS pocket. Good knowledge of LTE/CDMA/UMTS desirable KPIs. Finish tests within the given deadline regardless of challenges/setbacks faced. * **Market Lead:** Responsible for the south region market for Small Cell LTE/VoLTE (4G) project. Worked with the Network Real Estate (NRE), Site Selection & Sprint local RF teams to review and approve Small Cell candidates. Verified the feasibility of candidates according to the data usage of the surrounding area, distance from the carrier’s original search ring and geographical/physical obstructions using ArcGIS. Reviewed CDs to confirm that the information matches with Sprint’s RFDS and Capstan. Worked with Sprint’s Network Vision and mTRAC to make sure all candidate information/status for my market was up to date. Reviewed and approved propagation maps generated by Sprint LRF for candidate submission. * **Team Lead:** Introduced Electromagnetic Emissions (EME) analysis program in Mobilitie to aid permit application for small cell and backhaul candidates. Analysis is done using Roofview to verify the compliance status of proposed candidates per FCC RF Standards and Regulations. Coordinate with Network Real Estate (NRE) and Architect & Engineering (A&E) teams to understand their requirements and develop the EME studies accordingly to meet their deadline. Work with the in-house compliance team and Professional Engineer (PE) to develop guidelines and process flow for report creation. Train engineers on EME studies, FCC compliance and OSHA RF Signage Guidelines.  UDPlatforms, Dhaka, Bangladesh,*Junior Software Developer, September 2018-February 2019* **Map Visualization Project:** Developed a prototype for a web-based solution to visualize traffic data in USA. Built with django, PostgreSQL and Mapbox/Google Map API.   * Uploaded large csv file to database via django admin   Queried and filtered data and sent them to Mapbox/Google Map API for visualization. IDARE LLC, Dhaka, Bangladesh,*Application Engineer, March 2019–February 2020* A Houston based startup with a vision to develop a SaaS for the energy industry. An application that automates complex and time-consuming engineering designs to significantly reduce project completion time.   * Converted complex Mathcad calculations to analytics scripts using Python’s scientific libraries (Scipy, Numpy) and data visualization libraries (Plotly, Cufflinks). * Analytics served as API using django REST framework * Created interactive UI to use the analytics  Portfolio Projects **<Hello World/>:** A dummy eLearning website built with django, JavaScript, Bootstrap with various other tools to provide user experience as a student. Hosted with Heroku and AWS S3. [Website](https://shafin-elearning.herokuapp.com/) [GitHub](https://github.com/shafin071/hello-world)  **pybot n00b:** Automated test performed on <Hello World/> project. Script written with Python unittest module and Selenium. The test results are formatted and emailed. [Watch Demo](https://youtu.be/aqrQ4hAe17Q) [GitHub](https://github.com/shafin071/pybot.n00b)  **Word Count:** Finding most frequent words from a dataset of commercial slogans using Python NLTK. [Jupyter Notebook](https://shafin071.github.io/nltk-ex-1/)  **COVID-19 Analysis:** Data visualization and forecast on S. Korea COVID-19 dataset. [Jupyter Notebook](https://shafin071.github.io/covid19-analysis/)  **Automobiles Data:** Data imputation, cross-validation and determination of suitable ML algorithm. [Jupyter Notebook](https://shafin071.github.io/automobiles_imputation_classification/) |