|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Shafin Mohammed Python | SQL | Django | Data Science | Machine Learning | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | P |  | 530-902-0579 |  | E |  | shafinmohammed@gmail.com |  | A |  | Davis, CA | |  | W |  | [LinkedIn](https://www.linkedin.com/in/shafin-mohammed-50615447/) • [Github](https://github.com/shafin071/) • [Portfolio](https://shafin071.github.io/shafinmohammed.github.io/#home) |
|  | | | | | | | | | | | | | | | | |
| Profile | | | | | | | | | | | |  |  | | | |
| Python and SQL developer with experience in application development with  Django, REST Framework, JavaScript and deployment services like Heroku and  AWS S3. Experience with developing data analytics API with Python and Scikit-  Learn. Education | | | | | | | | | | | |  | KEY SKILLS   Coding Language:   * Python, SQL   Web Framework:   * Django, Django REST Framework   Database:   * MySQL, PostgreSQL,   SQLite    Web Application:   * Github, AWS S3,   AWS EC2, Heroku,  Postman  Web Framework:   * HTML, CSS, JavaScript,   React (beginner)  Data Science/ML:   * Numpy, Scipy, Pandas,   Scikit-learn, Statsmodel, NLTK, TensorFlow, Keras, Spark    Data Visualization:   * Plotly, Tableau   API:   * Stripe, Google Map, Mapbox   RF Technology:   * LTE, WCDMA/UMTS, GSM   RF Tools:   * iBwave, SeeHawk,   TEMS Pocket, Roofview | | | |
| |  |  | | --- | --- | | ***Undergraduate***  ***George Mason University, VA***  September 2009 – May 2012  Electrical Engineering | ***Graduate***  ***George Mason University, VA***  January 2015 – May 2017  Telecommunications |  CERTIFICATIONS | | | | | | | | | | | |
| - Advanced SQL + MySQL for Analytics & Business – Udemy  - Python for Data Science and Machine Learning Bootcamp - Udemy PROJECTS | | | | | | | | | | | |
| **<Hello World/> Full-stack project:** A dummy eLearning website built with django,  REST Framework, JavaScript, Bootstrap and Stripe API 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)  **COVID-19 Analysis:** Data visualization and forecast on S. Korea COVID-19  dataset using Python. Map visualization of contagion using Plotly and Mapbox  API. Forecast using Statsmodels exponential smoothing on date-time series.  Forecast had a MAPE of 2.41%. [Jupyter Notebook](https://shafin071.github.io/covid19-analysis/)  **Data Analysis with SQL & Tableau:** Data analysis and dashboard showing KPIs and  insights for an eCommerce business. [SQL Code](https://github.com/shafin071/SQL-Tableau-for-eCommerce)  [Tableau Dashboard](https://public.tableau.com/profile/shafin.mohammed#!/vizhome/MavenFuzzyFactorySalesReport2014part4butterfly/Story?publish=yes) | | | | | | | | | | | |
| Experience | | | | | | | | | | | |
| *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 and optimizes complex time-consuming engineering designs to significantly reduce project completion time. Responsible for implementing vast amount of calculations in IDARE’s application engine.   * Converted complex Mathcad calculations to analytics scripts using Python’s scientific libraries (Scipy, Numpy), Scikit-learn for ML modelling and data visualization libraries (Plotly, Cufflinks). * Implemented algorithms like binary search and memorization to speed up calculation * Analytics served as API using django and django REST framework * Created interactive UI using vertical stepper template and jQuery for users to send input data to the analytics API * Performed tests on analytics using Python unittest module and Postman * Results were saved as pdf reports using wkhtmltopdf package and saved into database for user to download.  **UDPlatforms, Dhaka, Bangladesh,****Junior Software Developer, January 2018-February 2019** **Map Visualization Project:** Developed a prototype for a web-based solution to visualize traffic data in USA   * Data was extracted from large csv files and loaded into PostgreSQL database. * Queried, filtered data from database and sent them to Google Map API for visualization * Used Google Map API features like marker clustering, custom markers with info window and choropleth map.   **SQL Data Analysis:**   * Extracted data from Moodle database and created a dashboard using MS Excel and SQL to show interpreter demand and shortages which helped the interpreter service staff more efficiently and reduce missed appointment by 40% in the next quarter   **Moodle Support:**   * Provided administrative support and troubleshooting for a Moodle based interpreter education and service platform.  **Mobilitie LLC, Atlanta, GA,** **RF Engineer, April 2016–November 2017**  * **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 using ArcGIS. Worked with Sprint’s Network Vision and mTRAC to make sure all candidate information/status for the 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. Worked with the Network Real Estate (NRE), Architect & Engineering (A&E) teams and Professional Engineer (PE) to develop guidelines and process flow for report creation. Trained engineers on EME studies, FCC compliance and OSHA RF Signage Guidelines. * **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.  **Telnet-inc, Rockville, MD,****RF Engineer, June 2012-April 2016** **EME:** Part of an 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” to ensure the sites are FCC compliant. | | | | | | | | | | | |