

Ammar Rehan

Vancouver, BC | V6S 1L4

Electrical Engineer | Data Scientist | Developer

Phone: [604-445-0982](tel:604-445-0982)

Email: ammar-rehan@outlook.com

LinkedIn: <https://www.linkedin.com/in/ammar-rehan/>

GitHub: <https://bit.ly/38SjHS4>

Electrical Engineer with experience in consulting, research, project management and new product development in IT industry. 365DataScience-certified Data Scientist with extensive GitHub portfolio. Life-long learner. Eager to use data interpreting, predictive analysis and data visualization skills to cut costs, boost sales and drive growth.

SKILLS

Languages:	Python, R, SQL, C/C#/C++, Excel VBA, Assembly, System Verilog, JavaScript
Software:	MS Office, MySQL, GitHub, AutoCAD, SolidWorks, MATLAB, Linux, Ansys HFSS, Simulink, MS Azure, Arduino, Microsoft Power Apps
Data Science:	Data Preprocessing, Exploratory Data Analysis, Data Visualization, Statistics, Regression, Clustering, Artificial Neural Networks, Convolutional Neural Networks, Reinforcement Learning, Dimensionality Reduction, Boosting, NLP, Computer Vision, Power BI, Tableau

EDUCATION

The University of British Columbia, Vancouver **Sept 2015 – May 2020**

Bachelor of Applied Science in Electrical Engineering

- **Specializations:** Antennas and Propagation (93%), Optimization of Power System Operation (84%), Control Systems (81%)
- Awarded Outstanding International Student Award worth \$10000.
- Awarded Chancellors Scholar Award.

RELEVANT WORK EXPERIENCE

Consulting IoT Engineer, TECHPOS International Corp- Vancouver, BC **Sept 2019- May 2020**

- As wireless communication lead, developed and implemented a wireless communication framework based on request-response protocol for end-to-edge communication using Python and ZigBee.
- Automated end-to-edge data upload using Python and edge-to-cloud data upload using Azure IoT Hub. Used PowerBI for data visualization.
- As project management lead, used agile software development methodology and Power Apps for project portfolio management.
- Developed multiple prototype devices using 3D modelling software and conducted prototype testing.

Research Assistant, Center for Flexible Electronics and Textiles, UBC- Vancouver, BC **Jun - Aug 2019**

- Developed 2D solar cells by stacking isolated monolayers of 2D materials like Graphene, Molybdenum Disulfide and Tungsten Diselenide.
- Designed and implemented a data collection and management process that resulted in increased collaboration between research assistants, reduced data loss exponentially and boosted productivity by over 300%.
- Co-developed python script to remotely control linear DC servo-motors for accurate microscope analysis and monolayer stacking resulting in increased productivity.

OTHER WORK EXPERIENCE

Student Advisor, UBC Radio Science Lab- Vancouver, BC **Oct - Dec 2019**

Advised on Wi-fi Backhaul expansion for adding new nodes into the Aurora testbed by designing links to backhaul mesh access points.

Line Cook, The Sylvia Hotel and Restaurant- Vancouver, BC **Aug 2017- Jan 2018**

Refined closing protocol, resulting in 30% faster closing times.

Project Management Intern, Hewlett Packard- Vancouver, BC **Jun - Aug 2014**

Assisted project manager in conducting risk analysis, drafting statement of work and risk registry and in creating Gantt Charts using online tools for cloud computing project.

Interests: Backpacking, Trading/Investing, Hobby-coding, Cricket, Reading, Cooking, Blogging