





# Kevin Huang

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## WORK EXPERIENCE

- **Solution Developer**  
**Deloitte Canada** | July 2018 – present  
*Montreal, QC*  
2 years of experience in building WorkForce Software (WFS) solutions for clients in various sectors including financial, public service and marine transportations.
  - Facilitate client workshops to gather Time & Attendance and Scheduling requirements.
  - Design workflows to eliminate time-consuming manual processes for scheduling, absence management and data collection.
  - Implement complex pay and scheduling rules in WFS to ensure the accuracy of employee payrolls.
  - Develop scripts to integrate WFS with existing HR system and ensure the data consistency.
  - Query WFS databases to reproduce timesheet calculations in SQL for testing and validation purposes.
  - Automate deliverable documents by parsing WFS XML files using Python, which significantly expedites project delivery.
  - Greatly improve operational efficiency and reduce labor costs for each client.[ [JavaScript](#) | [SQL](#) | [DbVisualizer](#) | [MS Office](#) | [Python3](#) ]
- **Software Developer Intern**  
**General Dynamics Mission Systems** | Summer 2017  
*Ottawa, ON*  
I worked on a Data Management System (DMS) for a military aircraft. The DMS enables an aircraft to collect and present integrated tactical situational awareness data gathered by multiple sensors.
  - Updated/developed existing sensor functionality using Ada in the DMS system.
  - Documented code changes by updating/creating UML diagrams, sequence diagrams and flowcharts.
  - Worked with a team of developers to achieve sprint objectives.[ [Ada](#) | [GNAT Studio](#) ]


## EDUCATION

- **Professional Development Certificate** in **Data Science** and **Machine Learning**  
**McGill University** | June 2020 – present  
*Montreal, QC*
- **Honours BSc** in **Computer Science** with **Management** and **Entrepreneurship Option**  
**University of Ottawa** | Graduated April 2018  
*Ottawa, ON*

## PROJECT

- **Data Scientist**  
**BIXI Case Study** | August – September 2020 | View this project on my [GitHub](#)  
The project goal is to predict BIXI demand by hour of the day.
  - Conducted exploratory and correlation analysis between variables and BIXI demand to select features for modeling.
  - Preprocessed and cleaned the data by normalizing the duration feature and categorizing the temperature feature into bins.
  - Built a Voting Classifier using Decision Tree, Random Forest, Naïve Bayes and XGBoost algorithms.
  - Achieved a Mean Squared Error (MSE) score of 6.3% and an R-Squared score of 99.7%.[ [Python3](#) | [pandas](#) | [NumPy](#) | [scikit-learn](#) | [Tableau](#) | [Alteryx](#) ]

## CERTIFICATIONS

- **WorkForce Time Level 1 – Interface Specialist: Partner Certification**  
**WorkForce Software** | Issued July 2019
- WT&A Level 1 – Configuration Specialist: Partner**  
**WorkForce Software** | Issued August 2018

## SKILLS

**Language:** English • French  
**Programming Languages:** Python3 • SQL • JavaScript • HTML&CSS  
**Software Tools/IDEs:** Git • Sublime • PyCharm • DbVisualizer • Tableau • Alteryx • MS Office suite  
**Data Science Libraries:** NumPy • pandas • Matplotlib • seaborn • scikit-learn  
**Machine Learning:** Linear Regression • Decision Tree • Gaussian Naive Bayes • Clustering (K neighbors, K means) • Logistic Regression • Random Forest • Support Vector Classifier • XGBoost • Voting Classifier  
**Statistics:** Hypothesis Testing (ANOVA test, T-test) • Regression Modeling • Time Series Prediction • Chi-Squared Test