





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 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