WENDY FU

SOFTWARE DEVELOPER / DESIGNER



WORK HISTORY



DATA SCIENTIST

Capital One | Kitchener, Ontario

- Designed and developed a fraud detection extension for Capital One's online banking website with a complete pipeline that processes over 500Gb of data/day.
- Implemented data mining and machine learning solutions to business problems such as fraud detection and targeted marketing; conducted outlier detection in Python using scikit-learn to identify and flag fraudulent transactions.
- Implemented dynamic data visualizations including a calendar view using Python, MongoDB, jQuery and d3.js.
- Worked closely with customers in a feedback loop to analyze customer sentiment and improve features.



SENIOR SOFTWARE ENGINEER

Trustwave | Cambridge, Ontario

- Developed a cross-platform command line Java tool that fetches and parses raw data using pattern recognition, increasing automation speeds by a factor of thousands.
- Designed and implemented hotfixes for the SIEM Legacy product incorporating data partitioning and application stabilization
- Developed various tools for data analysis including a data feeder written in Scala with a Java architecture.



FREELANCE WEB DESIGNER

Various | Toronto, Ontario

- Designed and developed websites using HTML, CSS and jQuery for small business owners
- Implemented a variety of tools such as Bootstrap, Sass, and self-designed responsive handling for creative design.

PERSONAL PROJECTS



MIMSY C# | Unity3D

An endless runner game with a twist made in Unity3D.

• Developed everything independently, including scripting, illustrations, animations, and game design.



MONOPOLY MINI EDITION Java

Replica of the popular board game, Monopoly.

 Created a replica of the Monopoly board game on a virtual platform using OOP, inheritance, polymorphism and original graphics.

SKILLS

Java
C / C++
Python
jQuery
Javascript
Angular JS
MySQL
MongoDB
Linux / UNIX
Git
Adobe Photoshop

EDUCATION

HTML / CSS

 Candidate for Bachelor of Software Engineering
 University of Waterloo | 2014-2019

INTERESTS



I love art and I have always incorporated good design in everything that I do. Have been selling HQ illustrations to customers for 7 years.



Played pretty much every game in existence.



Avid violinist; played in many concerts as the first violinist.