William Morgan

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SKILLS

**Data Science**

**Methodology**: Data access (API, scraping), experimental design, data cleaning/preprocessing, feature engineering, processing pipelines, data science project cycle, data selection and collection. ETL.

**Machine Learning**: Regression (linear/logistic/regularized), classification, decision tree ensemble learning/random forest, neural networks, computer vision.

**Languages & Tools**: Python, Jupyter, SQL, NumPy, Pandas, Matplotlib/Seaborn, SciPy, Scikit-learn (SKLearn), TensorFlow/Keras, PyTorch/Fastai, Docker, Tableau, Apache Spark, MS Office, Linux CLI.

**Full Stack Development**

**Front End**: HTML5, JavaScript, TypeScript, JQuery, Bootstrap, ChartJS, ReactJS, AngularJS, WordPress, D3, LeafletJS.

**Back End:** Flask (Python), Django, MongoDB, SQL, ExpressJS, PHP, Node.js.

**Tools**: GitHub, Atom, VSCode, Excel, Word, ACCESS, yaml, json.

**DevOps +**

**Operating Systems**: Microsoft Windows, Apple OSX, Debian Linux (Ubuntu, PopOs, Kali, ...etc), Android, iOS.

**Cloud Computing:** Amazon Web Services (AWS), Docker, GoogleCloudConsole, Azure, IBMCloud, DigitalOcean, Heroku, Netlify, Nginx, Apache.

**General**: Microsoft Office (Excel, Word, Access, Outlook), Tableau, Zoom, GitHub, Atom, VSCode, yaml, json.

**Soft Skills**: Teamwork, project management, excellent written & verbal communication, and data analysis.

**Special Interests**: Econometrics & International Trade, transportation, mathematics.

PROJECTS

**PDXCrimeMap** - A full stack data science project that captures and extracts information from live tweets from the PDX police log. The tweets are stored in a cloud SQL database and queried by the ExpressJS server which acts as an API for the ReactJS front end. The data is made digestible in the form of graphic and geographic visualizations. [http://pdxcrimemap.net](http://pdxcrimemap.net/)

**Opening a Restaurant -** A scalable data science project that uses over 100,000 data points to determine what kind of restaurant to open, as well as the location to open. Utilizes the foursquare API, census data, building permit data to predict which areas of a city should expect growth conducive to opening a restaurant. [Link](https://slides.com/will-m/opening-a-restaurant-in-portland-or/" \l "/)

**Math Lectures** - A data science project that explores multiple approaches to multi-class text classification. Using python to scrape subtitles of hundreds of math lectures from dozens of universities, the transcripts were processed and models were built to categorize each lecture by subject. Stunning visualizations reveal a very accurate model. See it on [Medium.com.](https://medium.com/@morga046/multi-class-text-classification-with-doc2vec-and-t-sne-a-full-tutorial-55eb24fc40d3)

PROFESSIONAL EXPERIENCE

**Free Lance Development** April 2018 – Present

* Currently I work on projects of various nature on [upwork.com](https://www.upwork.com/o/profiles/users/~01222555ded9660d46/?s=1110580755107926016" \l "specializedPortfolios).
* [IBM certified](https://www.coursera.org/account/accomplishments/professional-cert/7U9DYXX45U3G?utm_source=link&utm_medium=certificate&utm_content=cert_image&utm_campaign=sharing_cta&utm_product=prof) Data Scientist.
* Frequent [code warrior,](https://www.codewars.com/users/ExtraLime) [kaggler](https://www.kaggle.com/extralime), and [dataset contributor.](https://www.kaggle.com/extralime/datasets)
* Recently deployed [EuroDesign](https://www.eurodesign.info/).

**Independant Consultant for International Trade**

* Provide effective guidance to newly established cashew processing plants around the world.
* As part of the consultancy, brokered machine and part sales totaling over USD 20,000,000 since 2018.

SOTRAPACI Sarl (S3C Group), Abidjan, Côte d’Ivoire August 2016 – April 2018

**Director of Operations**

* Employed Lean Six Sigma principles and analyzed large amounts of data to continuously increase efficiency and lower production costs.
* Oversaw the entire operations of a facility employing over 500 employees. Sourced over 20,000 MT of raw cashew nuts.
* Initiated and executed contracts internationally for the export of raw cashew nuts and cashew kernels. Annual turnover for 2017 was USD 18,000,000.00.

**Project Manager**

* Spearheaded the development and execution of the installation of a 10,000 MT per year cashew processing facility.
* Converted empty warehouses into a BRC certified food processing facility in 8 months; ahead of schedule by two months and 15% under budget.

S3C Sa, Abidjan, Côte d’Ivoire September 2014 – August 2016

**Director of Cashew Operations**

* Negotiated and executed multimillion-dollar contracts with international partners.
* Developed expertise in procedures concerning international trade including international banking, documentary credit, and international shipping, managed product stocks valued at over USD 7,000,000.00 and produced a turnover of USD 12,000,000.00 annually for the cashew division.

**Director of Research and Development**

* Authored feasibility studies for various investment opportunities.
* Traveled to India, Vietnam, and China to source the machinery necessary to execute the project.
* Negotiated the purchase and delivery terms of the material ensuring that our material conformed to the exonerations that were awarded.

OnPoint Community Credit Union, Portland, OR November 2012 – June 2014

**Technology Team Lead**

* Promoted to manage a group of 10+ employees accountable for troubleshooting newly deployed systems.

**Digital Banking Systems Tester**

* Performed extensive testing for the new online banking platform before it was deployed credit union wide.
* Discovered and proposed solutions to countless bugs, assuring compatibility with the credit union’s core systems.
* Created manuals and procedural documents used credit union wide to better assist our members.

**Technology Team Member**

* Developed troubleshooting methods and coached other teams on how to quickly diagnose specific issues members would encounter.

Wells Fargo, Portland, OR July 2011 – June 2012

**Financial Crimes Specialist***, Anti-Money Laundering (AML/BSA) Department*

* Leveraged skills in data analysis to navigate multiple databases and research systems, including Actimize, HOGAN, AXCIS, RE, OIB to ensure that CTRs were completed on time and in full compliance with current FinCEN regulations.
* Worked on multiple manual reports and trained multiple employees.

EDUCATION

California State University San Marcos

**Bachelor of Arts in Economics**  May 2011

Focus: Econometrics & International Trade / Cum Laude, 3.65 GPA

Minor: Mathamatics

Thinkful

**Data Science**  January 2019

* Completed an intensive data science program with a focus on Python, mathematical tool-sets, statistical analysis, and big data techniques including machine learning, neural networks, and NLP.
* Learned industry best practices and standards by collaborating several hours every week with a Senior Data Scientist.