

LOUIS MILLETTE

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SKILLS

- 4 Years of software engineering experience: Python, PHP, SQL (MySQL, postgresSQL, SQL Server), Powershell, Linux (Bash), JavaScript, RactJS, SAS, C#, HTML, CSS, and Microsoft Office.
- 2 Years of work experience in automated Testing with Python unit test suite, Selenium, SOAP (WSGI+XML experience included) & JSON APIs, Jenkins Continuous Integration.
- 2 Years of analytical report writing including: Tableau dashboards, Tableau Server, Looker/VUE HTML based dashboards, R, R Markdown, Python, Excel.
- 2 Years of AI Modeling through python and SciPy. Additional work experience with koras and TensorFlow
- 3 years work experience in software testing in general including 2 years of black box QA using JIRA, confluence
- Experience with C, jQuery, Twig, and flask
- Development tools: Git, AWS, Jupyter, IIS, PyCharm, Visual Studio, Sublime
- Quick learner, Adaptable, Self-Motivated, Problem Solver

EDUCATION

Bachelor of Mathematics Honours Statistics

Graduated April 2018 University of Waterloo, Ontario, Canada

WORK EXPERIENCE

DATA ENGINEER October 2022 – Present Lifebank, Cleveland, OH

- Managed company wide SQL Server
- Created & Maintained AI Predictive Model for DCD Expiration times in Python (SciPy)
- Created 50+ Tableau dashboards, wrote SQL Queries and managed data sources
- Maintained MS SQL Server Reports, and created 5+ new ones
- Migrated 20+ SQL Server Stored Procedures into MS reports for a centralized storage
- Introduced Git & Bitbucket to the company, created and maintained report repositories
- Created 7 Python microservices and the framework they run in to import data into SQL database
- Brought company, department, & individual KPI's to life with tableau visuals, data, and metrics
- Helped migrate all 195 tableau dashboards to tableau cloud
- Mastered the basics of active directory, onboarded new hires, wrote new hire script in PowerShell
- Wrote 2 R Markdown Reports making business recommendations based on a GLM model I constructed

QA ENGINEER January 2021 – October 2022 OneZero, Boston, MA

- Black box/smoke testing for OneZero Hub Software and ARMS + Looker Data analytics dashboard
- Opened 61 Tickets for Bugs or Improvements
- Involved in 175 tickets (Closed, Opened, or Consulted on)
- SQL queries for testing in Postgres and Snowflake
- Wrote 20+ Postman API queries to test Hub REST API
- Wrote 5+ full test plans in confluence

SOFTWARE ENGINEER October 2018 – August 2020 Inuvika, Toronto, ON

- Create multiple Python microservices using Jenkins to automate the microservices on the nightly build
- Full stack web development in PHP backend and twig/html/js frontend

- MySQL database maintenance
- Support architecting multi-tenant software feature for OVD 2.7 release
- Write JSON API to replace SOAP API
- Replace existing PHP web templates with PHP rendered twig templates
- Rewrite OVD 2.7 technical user guide

PROGRAMMER AND DATA ANALYST January 2016 to April 2016 Seed Sustainable, Toronto, ON

- Build user authentication including emailing user tokens in Django, AWS
- Create 10 back end monitoring and graphing widgets with high charts
- Architect server to retrieve news stories and financial data daily from Zach's and Reuters, in Python and PostgreSQL

SOFTWARE DEVELOPER September 2015 – December 2015 Astute Solutions, Columbus, OH

- Develop cron jobs on a C# server queue for enterprise web application
- Create 5+ widgets using JS and jQuery, linked to cron jobs
- Integrate bamboo continuous test server in C# and ASP.NET

CONTRACT WORK AND WEB DEVELOPMENT | <https://louismillette.com/>

Rentflation

A data analysis of Zillow's rental data over the last 10 years, after adjusting for inflation.

- Python and Pandas for the data extraction & transformation
- Tableau for the visualization.

ZILLOW PLUGIN

A Browser plugin I've been using to enhance my idle Zillow scrolling. It takes Zillow's financial information and expands on cash flows, the EAC, renting vs buying, and the opportunity cost of investing the stock market.

- AWS Lambda and API endpoint I used for my S&P500 Calculator
- VUE/Materialize for the actual page that gets loaded after the API call, using its response data.
- JS jQuery and a Greece monkey script + HTML injection to collect the home data and build iframe dynamically

MILLETTECO

A web platform for my dad's accounting practice. Beyond a static site, it acts as a secure storage space for confidential documents.

- Python/Django/NGINX stack hosted on a Linux server

INVESTMENT RETURNS RESEARCH AND CALCULATOR

An investment return calculator for index and mutual funds. Analyze how index fund MER's, dividends, interest, and inflation affect the returns on investment.

- Investment return calculator uses Python on an AWS lambda instance
- Create High charts in Java Script to optimize visualizations

HOME-MADE ANNUITY CALCULATOR

Developing an annuity calculator to determine how much money to invest and remove from the S&P500 for the investment to be equivalent to an annuity.

Certifications

- **Google Advanced Data Analytics Certificate** – I also completed a personal project using the information I learned in this course, and some of my own technical skills, on the state of rent over the last 10 years: <https://louismillette.com/rentflation/>