Weronika Matuszczak

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EDUCATION

University of Pennsylvania *Master of Computer and Information Technology*   GPA: 3.97 | **Expected: Aug 2023**
University of Oregon *B.A. in Business Administration: Finance, Mnr in Economics*   GPA: 3.85 | **Mar 2020**
University of San Francisco *102 credits towards Finance and Economics*   GPA: 3.99 | **Aug 2018**

TECHNICAL SKILLS

Languages: Java | Python | C++ | C | JavaScript | HTML | CSS | MySQL | PostgreSQL | SQLite
Systems and Libraries: Linux | Bokeh | Pandas | Flask | Tkinter | NumPy | Matplotlib | PyCharm
Tools: Docker | Git | Jupyter | JUnit | Valgrind | Eclipse | Visual Studio Code | IntelliJ IDEA

GRADUATE PROJECTS

Pacman Game - Python - Implemented an Approximate Q-Learning agent trained using reinforced learning algorithms, which picks optimal actions and eventually wins a Pacman game.

Language Models - Python - Implemented Markov (n-grams) and perceptrons (neural network) based models for text prediction, recognition, and classification.

Flu Spread Indicator Based on Tweeter Data - Java - Developed an application that takes a database with tweets, filters the ones containing flu information, and uses their geolocation to count and map flu occurrences across the US.

Student Management System - Java - Designed course registration system with an authentication layer for users with various privilege assignments.

Software Analysis Tools - C++, Python - Using LLVM compiler infrastructure developed dynamic and static analysis tools to uncover insidious bugs, prevent security vulnerabilities, and automate testing and debugging.

TCP Client-Server Three-Way Handshake - C - Implemented multi- and single-threaded servers to handle concurrent client requests by monitoring multiple sockets using an event-driven approach and asynchronous I/O.

OTHER PROJECTS

Interactive Map - Python, JavaScript, HTML - Designed a multilevel interactive map of my parents' trip to the US. The map shows visited cities and parks with a zoom-in option for further exploration of the attractions within the area. Each point is represented as a pop-up with a photo, and a link to a Wikipedia page containing details of the place.

Face and Motion Detector - Python - Constructed a webcam motion detector that highlights and records timestamps of the moving objects, then plots them using Bokeh and Pandas as an interactive and CSV downloadable graph.

Data Analysis and Visualization - Python - Extracted, filtered, and plotted data from over 45,000 records of SQL database to create easy-to-understand interactive visuals and reports.

Web-scrapping and Website blocker - Python, HTML - Used real estate website to extract desired features of properties within a given location to CSV file. Built a website blocker to snooze notifications for specified hours.

WORK EXPERIENCE

University of Pennsylvania | Remote | Head Teaching Assistant   **May 2022- Present**
Assist Data Structures and Software Design course staff. Hold weekly office hours, 3 recitations per semester, and answer questions on the educational forum for 300 students. Since January 2023, as a head TA, oversee and mentor a group of 20 TAs, interview prospect TAs, and help with updates to course content and assignments.

Summit Bank, | Eugene, OR | Associate Business Client Advisor   **Jun 2020- Apr 2021**
Performed financial analysis and economic outlook of small and medium-sized businesses in Lane County, Portland and Central Oregon. Underwrote and presented to Business Client Advisors loans with a total exposure up to $5.6MM.

Prologis | San Francisco, CA | Intern in Financial Planning and Analysis   **Jun 2018- Aug 2018**
Created a model for more accurate interest expense projection. Collected, consolidated, and interpreted data from various departments to perform ROI analysis. Used Bloomberg to update TSR and calculate treasure awards.

HONORS AND ACHIEVEMENTS

Fluent in Polish, and advanced proficiency in Russian (B2 Level Russian Language Certificate)

Proficient in Salesforce applications (completed a four-weeks long online course offered by Salesforce)

Track & Field scholar-athlete for the University of San Francisco and the University of Oregon

3rd place at the European Cross Country Championships (2019)

2nd place as a team and 5th individually at the Division I NCAA Cross Country Championships (2018)