Maxim Piatine

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About Me

Technical Skills C/C++, Python, JavaScript, SQL, Excel, MATLAB, R, Git, LaTeX
Languages Fluent in French and English; Conversational Proficiency in Russian
Art Technology Adobe Photoshop, Adobe Premiere Pro, Illustrator
Interests Athletics, Quantum Computing, Puzzles, Learning, Scripting, Chess, Languages

Work Experience

Lead Software Developer, DOU Toronto, ON(January 2022)

- Currently assisting the startup company in backend and software development.
- Successfully integrated a SQL database system that allows users to sign in and sign up on the DOU website and executed an image search gallery API that enables users to look at specific NFTs.
- Designed and Engineered an application that generates $10,000$ randomized Non Fungible Tokens with different properties.

Laboratory Student, University of Toronto Mississauga Mississauga, ON(January 2021 – April 2021)

- Performed various experiments that allowed me to showcase my knowledge in different Physical sciences subjects. The process included data collecting, investigating different statistical distributions, cleaning, and mapping the data onto a plot, using MATLAB/Python with the Pandas module to further prove the hypothesis.
- Experiments include calculating the mean lifetime of a Muon, interference of a Microwave using a variety of slits, Franck-Hertz experiment, Absolute Zero of a molecule, the energy transfer in an AC generator, resonance in an LRC circuit, and Operational Amplifiers.

Middle Manager, Roast Cafe Ottawa, ON(October 2017 – April 2019)

- Led the company's financial, budgeting, and accounting via Excel. Executed an automatic Pivot Tables with Macros that displays the company's weekly/monthly net income.
- Front-end developed the website using HTML, CSS, and JavaScript to display the Menu, About Us, and different Social media linked to Roast Cafe.

Competitions and Personal Projects

NFT Generator (February 2022)

- Wrote an algorithm in Python to generate $10,000+$ different Non Fungible Tokens in under 5 minutes.
- Utilized the win32com library to open Adobe Photoshop and access various files to make layers visible and invisible simultaneously. Outputting all the different varieties of NFTs depending on the filters and seed variation.

Statistical Methods of Machine Learning Kaggle Competition (December 2021)

- Developed a program in R that recursively goes through x number of variables and outputs the lowest Cross-Validation error by Pruning trees. A Regression Trees method we learned in class.
- Placed in 13^{th} place out of 136 students.

Website Portfolio (December 2020 - January 2021)

- Implemented a grade calculator, that enabled me to calculate my grades in a class and measure my academic progress throughout the years
- Also, implemented a Readability feature that allowed me to post my advanced Physics lab reports and assignments. In return I'd get a readability score ranging from 0 to 100.

Education

University of Toronto Toronto, ON (2018 – 2022)

- Honours Bachelor of Science. Physics Major, Applied Statistics Major, and Mathematical Sciences Minor
- Relevant Coursework: Statistical Methods of Machine Learning, Stochastic Processes, Statistical Mechanics, Computation Modeling in Physics, Computer Science, Quantum Mechanics, Classical Electrodynamics
- Cumulative Average of 70% (2.7/4.0)
  - last two years 77% (3.3/4.0)