

GORDON LU

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Education

University of Pittsburgh, Honors College

August 2018 – May 2022

Bachelor of Science in Computer Science, Economics, Mathematics, Statistics

GPA: 4.0/4.0

Relevant Coursework

- | | | | |
|-------------------------|------------------------|---------------------------|------------------------|
| • Algorithms | • Data Science | • Linear Algebra | • Statistical Learning |
| • Machine Learning | • Database Management | • Differential Equations | • Financial Economics |
| • Deep Learning | • Computer Vision | • Financial Econometrics | • Game Theory |
| • Computer Organization | • Calculus III | • Mathematical Statistics | • Microeconomics |
| • Systems Programming | • Discrete Mathematics | • Probability Theory | • Macroeconomics |
| • Operating Systems | • Theoretical Calculus | • Applied Regression | • Econometric Theory |

Experience

University of Pittsburgh

August 2019 – Present

Undergraduate Teaching Assistant

Pittsburgh, PA

- Was a teaching assistant for: CS 0007, CS 0401, CS 0447, CS 0449, CS 1555, ECON 0110, ECON 1100, ECON 1440 and STAT 1331.
- Curated lab materials and developed grading scripts using Python and Bash scripts.
- Instructed weekly recitations and held numerous review sessions to explain complex topics.

Lumentum Holdings Inc.

May 2019 – August 2019

Quality Engineer Intern

San Jose, CA

- Optimized and developed SQL and Python scripts to retrieve and filter data.
- Used ODBC drivers to establish connection with databases and Python.
- Implemented WinSPC software to monitor and provide fast, efficient data analysis.
- Developed an auto-reporting system to monitor C_{pk} and P_{pk} values.

Premium Technology Inc.

May 2018 – August 2018

Software Engineer Intern

New York City, NY

- Lead developer in website: **premiumit.com**
- Aided in research to provide continuous improvement on the supply chain system, to simplify the ease of usage on client-side.

Projects

PittTours | Java, PostgreSQL, JDBC

November 2020

- Implemented an imaginary flight reservation system.
- Developed a set of triggers, procedures and ACID transactions in PostgreSQL.
- Utilized Dijkstra's Algorithm and other graph algorithms to find the routes between cities in Java.

Automated Hyperparameter Tuning | Matlab

April 2021

- Used Bayesian Optimization to find optimal hyperparameters to enhance accuracy for an image classification task.
- The Bayesian Optimization was performed on a classification network and a fine-tuned transformer after data augmentation.
- This improved accuracy on the testing data and reduced overfitting on the training data.

Pokémon Trainer | Python

April 2021

- Implemented reinforcement learning using Deep Q-Learning and an epsilon-greedy policy to win Pokémon battles.
- The model achieved a win rate of 0.95 to other novel approaches.

Technical Skills

Languages: Python, Java, C/C++, R, HTML/CSS, SQL, MIPS, x86, Matlab, Haskell

Libraries: PyTorch, TensorFlow, Keras, scikit-learn, Natural Language Toolkit, pandas, numpy, matplotlib

Statistical Software: Stata, JMP, Minitab

Other: Linux, GitHub, VS Code, Atom

Leadership / Extracurricular

Business Manager, Computer Science Club

May 2020 – May 2021

President, Data Analytics Through Applied Statistics

May 2021 – Present

Business Manager, Pitt Math Club

May 2021 – Present