

MATTHEW HYATT

Chicago, Illinois 60626 · (847)-266-1425
mhyatt000@gmail.com · mhyatt000.github.io



EDUCATION

Loyola University Chicago

BS Computer Science

Cumulative GPA: 3.59 / 4.0

Expected Graduation 05/24

Dean's List 2021-2022

Presidential Scholarship recipient

Director's Scholarship recipient

RESEARCH FELLOWSHIPS

- Loyola Provost Fellowship 2022
- NFS Research Experience for Undergraduates (REU) 2022
- Loyola FYRE Scholarship 2020

EXPERIENCE

Purdue University - Duality Lab

2022

Research Assistant - Internship

- Funded by a National Science Foundation grant to Dr. Jaime Davis
- Conducting a survey and interview of DL practitioners in order to illuminate difficulties in pre-trained model selection. Developing a tool to alleviate selection problems and measure the trustworthiness of pre-trained DL models.

Loyola University Chicago - Software Systems Laboratory

2021 - Present

Research Assistant - Part Time

- Funded by a Google gift to Dr. George K.Thiruvathukal.
- Analyzed TensorFlow Model Garden machine learning libraries for coding practices. Classified developer issues by reading error logs to determine the source of errors. Collaborated with a group of 6 researchers at Purdue University.
- Mined data from FOSS GitHub repositories. Developed automated command line interface tools to measure productivity, defect density and bus-factor of software projects with multiprocessing. Created graphs to visualize results. *Python (Numpy, Pandas, Matplotlib, Scikit-learn) JSON*

Loyola University Chicago - FYRE Program

2020 - 2021

Research Assistant - Internship

- Recipient of FYRE scholarship. Worked closely with faculty mentors and 10 peers to develop critical analysis skills, ask research questions, and read scholarly papers.
- Surveyed 40 students to understand the efficacy of online learning through Zoom. Designed software to score student attention span. Performed statistical analysis on results through command line interface. Organized discoveries on a research poster and presented to a faculty board. *Python (Numpy, Matplotlib) YAML*

ORGANIZATIONS

Loyola AI Club

2022 - Present

President

- Host industry employees to speak at university. Plan workshops to facilitate intellectual development of club members.
- Lead a group of 4 in Kaggle HM data science competition. Train deep neural network to predict the next purchase of HM customers. *Python (TensorFlow, Scikit-learn, Deep Learning, LSTM)*

Rambler Investment Fund

2021 - 2022

Quantitative Analyst / Software Developer

- Preprocessed trading data to remove look-ahead bias and calculate technical indicators. Implemented support vector machine and recurrent neural network models to recognize market opportunities from stock trading history. Constructed simulation to execute trading strategy. *Python (TensorFlow, SVM, RNN, Numpy, Yfinance, TA-Lib)*
- Wrote software to generate pdf financial reports. Generated reports upon request through Slack API bot. *Python (FPDF, Slack-sdk, Finviz)*

SKILLS

Languages	Python, Java, Bash, JavaScript, SQL, HTML, CSS
ML / Big Data	TensorFlow, PyTorch, HDFS, Spark
Program Design	Object Oriented Programming, Test Driven Development, Agile Development
Coursework	Data Structures, Machine Learning, Natural Language Processing, Deep Learning, Front End Web Development

PUBLICATIONS

POSTERS

[1] Hyatt, Matt, Klingensmith Neil, Kuhl, Amy, Palmer, Jake, Sethi, Rohan, Stoneman, Ethan, Synovic, Nicholas, Thota, Sohini, & Thiruvathukal, George K. (2022). Loyola University Chicago Spring Research Symposium.
<https://ecommons.luc.edu/csrs/ay2021-2022/poster/2/>