MATTHEW HYATT

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EDUCATION

Loyola University Chicago   Expected Graduation 05/24

BS Computer Science   Dean's List 2021

Cumulative GPA: 3.51 / 4.0   Presidential Scholarship recipient

Department GPA: 3.71 / 4.0   Director's Scholarship recipient

RESEARCH FELLOWSHIPS

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

EXPERIENCE

Purdue University   2022

Researcher

- Funded by a National Science Foundation grant to Dr. Jaime Davis

Loyola University Chicago   2021 - Present

Software Engineer / Researcher

- 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

Researcher

- 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

Board Member

- 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, RNN)*

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, 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

[1]   Hyatt, Matt, Kuhl, Amy, Palmer, Jake, Sethi, Rohan, Synovic, Nicholas, Thiruvathukal, George, & Thota, Sohini. (2021). SSL Metrics Datasets (0.1) [Data set]. Zenodo. https://doi.org/10.5281/zenodo.5636779