MATTHEW HYATT

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EDUCATION

Loyola University Chicago — Expected Graduation 05/24
BS Computer Science — Dean's List 2021
Cumulative GPA: 3.59 / 4.0 — 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 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
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, 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

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/