Harris Lynch

harris.lynch16@gmail.com | 847-704-0547 | hjlynch2.github.io

EDUCATION

UNIVERSITY OF ILLINOIS - URBANA CHAMPAIGN | BS in Computer Science
GPA: 3.82 / 4.0 | May 2019
Study Abroad (Fall 2017) - University College Dublin, Ireland

EXPERIENCE

CITADEL | Software Engineer
July 2019 - Present | Chicago, IL

Commodities Weather Team | Jan 2020 - Present
- Support weather processing infrastructure and work with various Commodities desks to build solutions to their weather data needs
- Built new gridded weather data ingestion pipeline using Python, Kafka, MongoDB, and S3 which sped up end-to-end processing by about 6x
- Developed Flask API for vending weather data to the Commodities desks, which returns data up to 20x faster than the old weather data API
- Work with weather analysts on a day-to-day basis to build various weather products and to integrate new datasets into our infra and API
- Managed a software engineering intern over Summer 2021 and led project to implement various speedups to the weather data pipeline
- Integrated Datadog monitoring into the weather data pipeline

Commodities Execution Team (Rotation Program) | Sep 2019 - Jan 2020
- Wrote Python wrapper script for automating simulations of trades during a given day
- Learned about and debugged C++ trade execution algorithms

CITADEL SECURITIES | Software Engineering Intern
Sept - Dec 2018 | Chicago, IL

- Lead development of application that exposes information available to servers connected to the exchanges
- Used C++ to create an easily extendable API that receives requests from a React frontend
- Integrated clang-tidy into the available developer tools which has allowed for more modernization of the C++ codebase

GOOGLE | Software Engineering Intern
Summer 2018 | Sunnyvale, CA

- Designed and implemented a data quality visualization system for a Cloud reliability pipeline using Python
- Ingested real time data from various sources to perform backend monitoring

AT&T | Software Engineering Intern
Summer 2017 | Chicago, IL

- Implemented and refactored various request classes using Java for AT&T's software defined networking project

CONTINENTAL | Software Engineering Intern
Summer 2016 | Deer Park, IL

SKILLS

LANGUAGES
Python | C++ | Java

TECHNOLOGIES
Kafka | MongoDB | Amazon S3 | Linux | Git