Faye Alexander

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WORK EXPERIENCE

Northern Trust Corp, Chicago, IL   **July 2017 – Present**

Capital Markets – Software Engineer   **Feb 2019 – Present**

- Performing as an Agile team member to improve daily operations across brokerage.
- Full stack Python application development for processing & storing real-time trades using FIX Protocol.
- Developed processes for data ingestion & reconciliation across a variety of sources such as Bloomberg's API, ORATS, & Northern Brokerage Systems.
- Frontend development for Options Team applications using React, Python & Flask.
- Optimizing ETL processes for Transitions Management Pre and Post-trade reporting.

Technology Rotational Development Program   **July 2017 – Feb 2019**

Enterprise Architecture Team
- Worked on project to help develop 5-day forecast model for Securities Lending.
- Performed data extraction, cleaning, & analysis.

Finance IT – Business Intelligence & Analytics
- Created python process to identify consumer insights from transaction data using Natural Language Processing.
- Robotic Processing Automation demo using Blue Prism.

Blockchain Private Equity Applications
- Experience developing & testing Northern Trust's Private Equity Application using IBM blockchain.
- Created technical application user manual.

EDUCATION

Master of Science in Information Science, *UIUC*, 3.84 GPA   **Dec 2016**
Bachelor of Arts in Communications, *UIUC*

INTERNSHIP EXPERIENCE

Monsanto Company, St. Louis, MO   **May 2016 – August 2016**
Information Services

- Top trend research by analyzing over 600 surveys using NLP and data visualization.
- UX design plan that increased accurate customer navigation by over 60%.

RELEVANT ACADEMIC RESEARCH

Impact Assessment of Fake News Circulation, Social Media Analytics   **Dec 2016**
- Proposal for assessing emotional and cognitive impact across Facebook users using network analysis.

First-Author Gender Gap in Medical Journals, Data Mining   **Aug – Dec 2016**
- Developed forecast model for first-author gender distribution in internal medicine journals.

Organizational and Safety Failures at NASA, Reference Services   **April 2016**
- Subject guide concerning NASA's history of problem reporting and corrective action.

TECHNICAL SKILLS

Languages: Python, SQL, R, Linux   **Tools:** Pandas, NumPy, SciKit, Jira, MS Excel, Power BI