

Hannah Isaacson

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Education

Indiana University, Bloomington, IN

(anticipated graduation in May 2020)

Computer Science, B.S. IU School of Informatics and Computing
Specialization – Data Science
Minors - History and Art History

Honors and Awards

Provost Scholarship

(Fall 2016)

IU Achievement Scholarship awarded based on high academic performance

Distinguished Scholar Award

(Fall 2016)

IU Award based on high academic performance

St. Joseph Volunteer of the Year Award

(Spring 2016)

Saint Joseph County Big Brother Big Sister Volunteer Award recipient

Technical Skills

Programming Languages: Java, Python, Cypher, R, SQL, HTML, CSS, Javascript

Tools: SAP Business Objects, PowerBI, Qlik, JIRA, Enovia, PL/SQL Dashboard Developer, Git, Agile, Jupyter, Neo4j Graph Database

Research, Publication, Projects

Graph Database with Neo4j and Cypher Language

(June 2019)

- Graph database created with appropriate dependencies from working dataset at Liberty Mutual for the purpose of determining application status and relationships.

Web Proxy Data Parsing in Python and Dashboard

(May 2018 - July 2018)

- Tasked from Security Department to apply ETL process to employee's internal web history data and create dashboard to facilitate and assist in formal investigations into what employees spend time on while using the company's network.

Quantitative Trading through IU Independent Research

(August 2017- December 2017)

- Developed a sentiment-based trading strategy that achieved 44% cumulative returns and a 1.33 Sharpe ratio.
- Designed a structured research workflow to systematically analyze potential alpha factors.
- Utilized Jupyter Notebooks to effectively collaborate with the research team and present a comprehensive list of progress.

Portfolio Website

(June 2017)

- Created a portfolio website using HTML and CSS. Currently being redesigned.

Intern for Emergency Physician at Memorial Hospital

(June 2015 – September 2015)

- Leadership, collaboration, and interpersonal skills were demonstrated within lab setting and proper bedside manner was demonstrated when interacting with patients. Co-authored published article: *"Demonstration of the Absence of Fibrinolysis in Severe Traumatic Brain Injury (TBI) and the Presence of Early Platelet Inhibition as a Marker for the Severity of TBI: Searching for the Etiology of Hemorrhage in TBI."*

Professional Experience

2019 Software Developer Internship at Liberty Mutual

(Current - August 2019)

- Working as a software developer intern in GRM Information Management. Created a graph database on applications dataset that allowed Liberty to visualize in-use applications and see what their dependencies are related to each other. Provided management to determine what applications could be retired to streamline cost and time efficiency, particularly regarding their data servers.

2018 Business Intelligence Internship at Bell Helicopter

(May 2018 - August 2018)

- Spent the summer as a Data and Analytics Intern. Applied ETL process to clean large amount of web proxy data obtained from McAfee Web Gateway and created a script that automates the process going forward. Power BI was used to analyze the data and report was presented to HR on conclusions regarding employee internet usage.

2018 Liberty Mutual Women in Technology Summit

(June 2018)

- Invited to attend a three-day program that highlights discussions about women in technology positions throughout the corporate atmosphere. Summit included various workshops and networking events.

Intern at Center of Excellence for Women in Technology (CEWiT) (August 2017 – May 2018)

- Worked collaboratively with other interns on tasks such as workshop organization, speaker series presentations, and idea creation.

Sales Associate at Hollister (May 2017 – October 2017)

- Gained experience in customer service, the handling of money in a professional setting, and practiced making decisions in a fast paced environment.

Intern at TEDx Indiana University (October 2016 – December 2016)

- Worked on production of TEDxIU event, with a particular emphasis on finances. Developed skills regarding management of budget and allocation of funds.

Volunteer Experience and Memberships

Women in Computer Science (August 2017)

Informatics and Computing Student Association (October 2016 – May 2017)

Mentor at Big Brothers Big Sisters of America (October 2014 – June 2016)