

Ryan H. French

Data Scientist

EDUCATION

**Syracuse University,
School of Information Studies**

MS in Applied Data Science

Expected May 2020

**BS in Information Management
& Technology**

May 2019

- Concentrations in Data Analytics and Information Security Management
- Dean's List GPA: 3.8
- Renée Crown University Honors Student
- Adam Levitt '03 iSchool Undergraduate Award for Excellence in Innovation

Technical Skills

- Python (Scikit-Learn, Pandas, PySpark, Jupyter)
- PostgreSQL & NoSQL databases (Cassandra, MongoDB)
- R (R Markdown, Shiny)
- Visualization (Tableau, Adobe Illustrator, Photoshop)
- Big Data (Spark, AWS EMR)
- MPP databases (AWS Redshift)
- Cloud Infrastructure (AWS Ecosystem)

Management Skills

- JIRA (Agile Methodology)
- Git (GitHub, BitBucket)

Certifications

- Microsoft Excel

EXPERIENCE

IT Core Infrastructure Systems Engineer at Syracuse University

September 2019 to Present

- Designing **Docker** and **Kubernetes** infrastructure solutions to support research computing at Syracuse University.
- Implementing said solutions in both development and production environments to benefit research faculty.

Researcher on the Illuminating Project at Syracuse University

January 2019 to May 2019, September 2019 - Present

- Optimizing **Machine Learning** algorithms to detect people in social media posts and recognize those that are reoccurring.
- Deploying said algorithms in production to analyze political content.

Security Engineering Intern at Vanguard

May 2019 to August 2019

- Constructed architecture for the Enterprise Fraud & Security **Data Lake** utilizing **AWS EMR**, **S3**, and **Glue**.
- Developed an **ETL pipeline** for security logs via **AWS SageMaker**.
- Identified security gaps and overlaps by mapping internal security controls and capabilities to products to create an **Access Database**.

Teaching Assistant for IT Management & Administration

January 2019 to May 2019

- Guided students through **Docker** based labs as they learned to administer information systems and containers.
- Developed course material alongside the instructor and provided feedback to further improve class labs.

PROJECTS

All project code & resources available at ryanhfrench.github.io

Spotify Daily Top 200 Songs Analysis

- Created a **Python** script to extract Spotify web data in CSV format.
- Performed data transformation and placed data in a **MySQL** database.
- Loaded data into an interactive **Tableau** dashboard to infer insights.

Visualizing, Predicting, & Understanding Crime in Syracuse

- Scripted an **R** program to munge Syracuse City Crime data.
- Created visualizations to infer trends in crime.
- Trained **SVM** and **Random Forest** models to predict if an arrest would be made from the given attributes of a crime.

Digitizing the Gaming Industry (Information Visualization)

- Visualized **Kaggle** Video Game Sales to generate insights utilizing **R**.
- Compiled visualizations into a stylized poster for presentation using **Adobe Illustrator**.