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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, Numpy, Jupyter)
- PostgreSQL & NoSQL databases (Cassandra, MongoDB)
- Scala, PySpark
- R (R Markdown, Shiny)
- Visualization (Tableau, Adobe Illustrator)
- Big Data (Spark, AWS EMR)
- MPP databases (AWS Redshift)

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

Certifications
- Microsoft Excel

EXPERIENCE

Core Infrastructure Systems Engineer at Syracuse University
September 2019 to Present
- Designing **Docker** and **Kubernetes** infrastructure solutions to support research computing at Syracuse.
- Implementing said solutions in both development and production environments to benefit research faculty.
- Creating documentation for the new system for continued maintenance.

Security Engineering Intern at Vanguard
May 2019 to August 2019
- Constructed architecture for the **Security Data Lake** utilizing **AWS EMR, S3,** and **Glue.**
- Developing data ingestion and transformation pipelines for security weblogs utilizing **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 the 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**.