

# Eric J. Swenson

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University of South Carolina Columbia - B.S. Information Science, Statistics

Highly motivated and committed emerging data scientist known for my unwavering dedication to precision, productivity, and excellence. My professional experience encompasses a range of demanding environments where effective bottom-up and top-down communications, considerable streamlined coordination, and punctuality were paramount. Currently, I am a junior enrolled in the School of Information Science at the University of South Carolina where I am actively pursuing my Bachelor of Science in Information Science with a minor in Statistics and cognates in Informatics and Business Administration. Member of the University of South Carolina Capstone Scholars Program, where I have demonstrated my capacity for advanced research, problem-solving, and data-driven decision support. My academic pursuits reflect my genuine passion for the fields of Data Science, Informatics, and Sports Analytics, where I seek to apply my skills and knowledge to meaningful real-world projects. Extensive global travel and project coordination with diverse global teams have enriched my understanding of and working with multiple cultures.

## KEY ACCOMPLISHMENTS

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- ✓ DataOps Intern at nSight Labs Inc, performed data integration and data engineering, supporting LIMS and Salesforce data integration, molecular diagnostics QC analysis, state agency reporting, and business intelligence reporting.
- ✓ Accomplished Member of the University of South Carolina Capstone Scholars Program.
- ✓ Awarded the Bronze Medal President's Volunteer Service Award under the Obama Administration.
- ✓ Active Member of Alpha Epsilon Pi Fraternity, Applied Analytics Club, Statistics Club, UofSC Sports Analytics Club, Business Analytics Club.

## CORE COMPETENCIES

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- Advanced Research & Business Analysis
- Machine Learning & Statistical Analysis
- Data Engineering and DataOps
- Cloud & Data Architecture
- Data Analysis & Visualization

## TECHNICAL SKILLS

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<b>Languages:</b>	French and English
<b>Dev / Programming:</b>	Python, R, SAS, SQL, Bash, Git
<b>Advanced Analytics:</b>	Statistical Analysis, Regressions Analysis, Data Cleansing, Data Engineering, Machine Learning, Multivariate Analysis, OCR and Image-to-Text Analytics, SAS, Python, and R-Shiny data visualization
<b>Technologies:</b>	Microsoft Office & Office 365, SAS & SAS Enterprise Guide, RStudio, Jupyter, Docker & Docker Compose, Windows SMBFS & CIFS, Apache Nifi, Anaconda, MS SQL, MongoDB, Redis, CSV & JSON, AWS Cloud, Azure

## PROFESSIONAL EXPERIENCE

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<b>University of South Carolina</b>	<b>2023– Present</b>
<b>Independent Study</b>	

- Case study of methods in statistical analysis in college baseball, based on data collected from Gamecock Baseball.

<b>nSight Labs, Inc</b>	<b>June 2022 – September 2022</b>
<b>DataOps Intern</b>	<b>Raleigh, NC</b>

- Prepared Apache Nifi & Python data pipelines supporting automatic report submissions of COVID-19 qPCR diagnostic results to state agencies; reviewed LIMS database ERD, built SQL queries returning key fields to CSVs, and prepared an automatic file-based trigger to SFTP the files to state agency SFTP servers. Led requirements analysis, development, and deployment of Apache Nifi running Python script executions as part of a complete automated laboratory reporting workflow.
- Prepared laboratory instrument and LIMS data integrations ingesting raw instrument data, and per LIMS assay-based workflow requirements prepared data transformations standardizing data for analysis against reference ranges

- Built Apache Nifi workflows which prepared data extracts for RCM with billing vendor, automatically extracting laboratory testing orders and results data from the LIMS SQL database while encrypting PII fields, and automatically SFTPing data to Mirth Engine Linux servers supporting conversion to HL7 and HL7 information exchange with the billing vendor.
- Ingested CSV data spanning RCM post-adjudication from the billing vendor, LIMS SQL data, and Salesforce CRM data to generate wide range of laboratory inventory and operational reports, diagnostic sales forecasting and reporting, and business intelligence reporting under the guidance and mentorship of the IT Manager and Laboratory Operations Manager.
- Developed automated and holistic OCR-based data pipeline to record data from scanned laboratory testing requisition forms using Apache Nifi with an automated file-based trigger, and Python utilizing PyPDF2, PyPDFminer, PyPDFplumber, PyPDF2image, Pillow, and Pytesseract to automatically transform PDFs, mine completed hand-written text, convert these into images, and use image-to-text OCR extraction.

#### **Six Points Sports Camp Summer 2015**

**2015**

#### **Assistant Rugby Instructor**

**Greensboro, NC**

- Taught Rugby basics to campers

### **EDUCATION & CREDENTIALS**

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#### **Bachelor of Science, Information Science, Minor: Statistics ▪ University of South Carolina, Columbia, South Carolina 2019-Present (2024 Graduation)**

- Member of Capstone Scholarship Program
- Certificate in Data Analytics and Visualization
- Major Cognate in African American Studies
- Dean's List by Semester
- **Relevant Courses:** Applied Machine Learning, Applied Multivariate Statistics and Data Mining, Information Science Data Analysis and Evaluation, Information Storage and Retrieval, Computing in Statistics, SAS Programming, Statistical Methods I & II, Text Mining in Big Data and Information Visualization.
- **Clubs & Organizations:** Alpha Epsilon Pi Fraternity, Applied Analytics Club, Statistics Club, UofSC Sports Analytics Club, Business and Analytics Club, Tennis Recreation Club.

#### **High School Diploma ▪ Raleigh Charter School, Raleigh, NC**