

# Chris North

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## SUMMARY OF QUALIFICATIONS

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- Python - Pandas, Numpy, SKlearn, API data collection, data cleaning, visualization, SQLite
- R - Statistical analysis, R Markdown, visualization, predictive modeling, forecasting
- Machine Learning - Regression, classification, forecasting, clustering, image compression, network graphing, boosting, dimensionality reduction
- Credentials - Six Sigma Yellow Belt, BPI Building Analyst, HERS Rater, LEED Green Rater, OSHA 10

## EDUCATION

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**MS, Analytics** **August 2019 - Present**  
*Georgia Institute of Technology* *Atlanta, GA*

**BS, Sustainable Technology** **August 2010 – May 2014**  
*Appalachian State University* *Boone, NC*

## DATA PROJECTS (Available on Github)

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**Mushroom Classification (academic)** – Trained machine learning models to eliminate risk of mushroom misclassification. Discovered that four out of twenty-three variables were needed to avoid false positives and achieve high accuracy.

**Chess.com API Connection (personal)** – Connected to a public API to gather chess game data in JSON format. Cleaned and analyzed in pandas to collect insights into beginner level gameplay.

## WORK EXPERIENCE

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**Technical Project Manager** **July 2016 – February 2020**  
*Southface Energy Institute* *Atlanta, GA*

- Managed budgets, invoicing, and demand forecasting for multiple programs using Salesforce
- Supported the development of a Salesforce app designed for home energy professionals
- Provided energy modeling, design, and consulting services to certify LEED multifamily projects
- Managed field data collection for a Department of Energy research grant
- Analyzed architectural, mechanical and civil plans for program compliance

**Energy Data Associate** **May 2015 - July 2016**  
*Southface Energy Institute* *Atlanta, GA*

- Developed an Excel tool to collect and track construction data for Department of Energy grant research
- Collected and cleaned data from hundreds of home energy inspections
- Recruited builders to participate in grant research via email, phone, and in-person meetings

**LEED Intern** **October 2014 - April 2015**  
*Southface Energy Institute* *Atlanta, GA*

- Led tours of a high-performance office building
- Created process-flow models to streamline LEED documentation review

**Sustainability Intern** **August 2013 - August 2014**  
*ASU Office of Sustainability* *Boone, NC*

- Collected and analyzed energy data for the University's Greenhouse Gas Inventory, which was published and referenced for campus wide sustainability certification
- Researched the feasibility of a voluntary carbon offset program which was implemented, exceeding expectations with 15% participation in the first year

**Sustainability Intern** **June 2013 – August 2013**  
*ASU Energy Center* *Boone, NC*

- Researched ASU as a case study for sustainability efforts in higher education
- Compiled waste stream and financial data from Municipal Solid Waste Management plans of counties in western NC to analyze the viability of a waste-to-energy facility