

Andrew Francis

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Simulation • Risk Management • Data Mining • Machine Learning • Full Stack Application Development • Continuous Deployment • Agile Project Management • Object Oriented Programming • Cloud Computing

OVERVIEW

Nimble analyst with robust skills in engineering, statistics, software development, and communication. Resilient leader with a passion for leveraging team diversity to solve complex problems. Deft in transforming business needs into actionable insights and impactful software systems.

- Skillful full stack application developer with extensive experience building backend APIs, designing responsive user interfaces, and managing continuous deployment pipelines
- Proficient SQL programmer with experience generating business related queries for ETL operations
- Advanced Python programmer with experience developing complex data analytics packages
- Experienced Tableau developer with experience building insightful dashboards for senior level management to guide strategic decision making

PROFESSIONAL EXPERIENCE

North Carolina Joint Underwriting Association Software Engineer

Raleigh, North Carolina
May 2020—Present

- Designed, developed, and maintained the API backend and dynamic user interface for a companywide productivity management tool
- Maintained and expanded the functionality of the company's InsuranceNow software buildout
- Collaborated with business representatives, stakeholders, and developers to design, extend, and maintain software systems

Biowish Technologies Data Scientist

Cincinnati, Ohio
January 2018—May 2019

- Developed machine learning models and analysis packages in Python to quantify product value to clients
- Built Tableau dashboards to convey strategic market analytics to senior level management
- Worked horizontally across marketing, sales, and engineering to develop lucrative market models
- Analyzed sales data to identify customer retention patterns, sales trends, and repeat customers

Resilient Communities Vice President and Co-Founder

Cincinnati, Ohio
January 2018—August 2019

- Managed a cross disciplinary team of engineers, MBA's, and community planners to implement an energy, cost, and revenue forecasting model in Python to predict financial viability of an infrastructure project
- Coordinated with an overseas representative to refine and implement a sustainable infrastructure project in an impoverished foreign community

SKILLS

- *Technology:* Java, .NET Core, C#, JavaScript, SQL, CSS, Python, SKLearn, Tableau, SAS, R, AWS
- *Projects:* Professional Website, Analysis of News Article Topic Networks Using LDA and LSI Topic Modeling Methods, Predicting Heart Disease Using Metabolomic HNMR Spectroscopy Data, Energy Capture at a Moroccan Wastewater Treatment Facility
- *Publications:* The Effect of Chloride, Sulfate and Dissolved Inorganic Carbon on Iron Release from Cast Iron
- *Certifications:* SAS Certified Professional: Advanced Programming Using SAS 9.4
Tableau Desktop Specialist Certification, AWS Certified Cloud Practitioner

EDUCATION

M.S. in Analytics

May 2020

Institute for Advanced Analytics, North Carolina State University, Raleigh, NC

B.S. Environmental Engineering; Environmental Studies, *magna cum laude*

May 2019

University of Cincinnati, Cincinnati, Ohio