

RUBEN BRIONEZ JR

AUTOMATION & DATA INTEGRATION PROFESSIONAL



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[Ruben Brionez Jr](#)



[Portfolio](#)

EDUCATION

MASTER'S OF SCIENCE DATA SCIENCE

Bellevue University
08/2025

BACHELOR'S OF SCIENCE INFORMATION STUDIES

University of South Florida
07/2014

TECHINICAL SKILLS

Python

PyCharm

Visual Studio Code

ArcGIS Pro

ArcGIS Enterprise

ArcGIS Portal

GitHub

R Programming

RStudio

Numpy, Pandas, Seaborn,
Scikit-Learn

Jupyter Notebooks

NLP Analysis with Python

Regression Modeling

API Utilization for Data
Pipelines

ArcPy

ArcGIS Python API

Machine Learning

PROFESSIONAL PROFILE

Automation & Data Integration Engineer with over 10 years of experience in telecommunications, specializing in building automated workflows, system integrations, and data-driven solutions. Skilled in developing custom ArcGIS toolsets, integrating enterprise data sources with GIS, and designing dashboards that streamline engineering and construction operations. Recently earned a **Master's in Data Science**, combining technical expertise and advanced analytics to deliver impactful insights and drive innovation in progressive, technology-focused roles.

PROFESSIONAL EXPERIENCE

GIS ENGINEER | FIBER DESIGN ENGINEER

Omni Fiber / Mason, OH / 2024 – Present

At Omni Fiber, I drive the development and implementation of **automation, GIS standards, and data integration processes** across the Engineering and Construction departments. My role focuses on building scalable geoprocessing tools, integrating enterprise data sources, and standardizing engineering practices to enhance operational efficiency and support strategic planning. By leading cross-functional efforts, I ensure consistent data management, workflow optimization, and innovation in network design and construction.

Key Responsibilities and Achievements:

- Developed **custom Python geoprocessing tools and ArcGIS Pro toolboxes** to automate workflows, reducing manual effort and improving data accuracy.
- Designed and implemented **enterprise data integrations with ArcGIS**, enabling seamless updates from external systems and improving data reliability.
- Built **dashboards and advanced ArcGIS expressions** to track construction progress, feature counts, and KPIs for leadership and field teams.
- Led **analysis and planning using ArcGIS feature layers** to support construction, engineering, and market expansion decisions.
- Scoped and deployed ArcGIS solutions that streamlined departmental workflows and improved system adoption.
- Automated attribute population and quality checks in ArcGIS using Python, **significantly improving data governance**.
- Conducted market and **cost analysis using geospatial and tabular data** to identify optimal expansion opportunities.
- Established and standardized engineering processes and **data schemas** for consistent vendor and internal use.
- Developed templates for splice schematics and Bill of Materials (BOMs) **to improve consistency and reduce rework**.
- Provided technical leadership to cross-functional teams, contributing to hiring and team growth to support expanding operations.
- Developed reusable Python classes and libraries** to standardize geoprocessing logic, making automation scalable across multiple projects and teams.
- Published and maintained custom geoprocessing tools and Python scripts in ArcGIS Enterprise**, enabling organization-wide access through shared services/REST endpoints.
- Managed ArcGIS Enterprise groups, services, and dashboards** to streamline collaboration, ensure data integrity, and provide stakeholders with reliable, centralized access to operational insights.

PROFESSIONAL SKILLS

Process Improvement

Automation & Workflow Optimization

Data Integration & Pipeline Development

Team Leadership

Strategic Planning

Analytical Problem Solving

Cross-Functional Collaboration

Technical Documentation

Communication Initiative

PROFESSIONAL EXPERIENCE

SENIOR HFC DESIGNER

Charter Communications / Riverview, FL / 2018 – 2024

As a Senior HFC Designer and subject matter expert in outside plant for the Florida region, I lead data-driven projects and analyses related to outside design and construction initiatives, including FTTx deployments and RDOF builds.

- Led multiple team-based projects and effectively coordinated group tasks and training.
- Led address reconciliation project in ArcGIS, utilizing SQL to query tables in a database and update records.
- Spearheaded cross training program, proactively engaging multiple members of the design team to set and create various Florida Design standards.
- Regional SME for design data, processes, and software.
- Utilized ArcGIS to import data from design software and push updates to ESRI.
- Planned, designed, and consulted on greenfield FTTH and RDOF projects.

FIBER NETWORK ARCHITECT

Bright House Communications / Riverview, FL / 2014 – 2018

As a Fiber Network Architect, I was responsible for maintaining and updating the company's fiber records. I was also responsible for creating construction blueprints, diagrams and providing instructions to build enterprise fiber connections.

- Helped create and implement company standards for FTTH and FTTX construction.
- Managed all fiber records for various markets and hubs.
- Managed ISP port assignments for engineering and construction.
- Approved fiber assignments and allocations.
- Directly worked with the Construction and Maintenance teams for storm preparation and recovery of vital fiber routes for EMS.

ACADEMIC EXPERIENCE

Graduate Student – Data Science (M.S.)

Bellevue University / Omaha, NE (Remote) / 2023 – 08/2025

Enrolled in the **Data Science Master's program** to advance my professional career by deepening expertise in machine learning, statistical modeling, and data engineering. The program emphasizes both theory and applied projects, leveraging **Python, R, SQL, and big data tools** to solve real-world problems.

Key Projects & Coursework:

- Applied **Natural Language Processing (NLP)** using Python libraries (TextBlob, NLTK) for sentiment analysis of unstructured text.
- Implemented **K-Means clustering and k-Nearest Neighbor algorithms** in R to segment and classify datasets.
- Conducted **exploratory data analysis (EDA)** of CDC's 2006 NSFG dataset using Python and Jupyter Notebooks to uncover demographic trends.
- Built a Python application in PyCharm to consume and parse the **OpenWeather API**, returning customized JSON-based reports for users.
- Developed **classification models** including Random Forest and Logistic Regression to predict outcomes on structured datasets.
- Designed and evaluated **telecom customer churn prediction models**, testing multiple machine learning algorithms to forecast churn probability.
- **Capstone Projects:**
 - Built a **predictive model for broadband fiber expansion** using FCC and ACS datasets, combining socioeconomic data and provider availability.
 - Designed a **National Park suitability analysis** leveraging geospatial data (PAD-US, biodiversity, visitation, demographics) with machine learning and GIS-based scoring models.