Ian P. Roy

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Data Engineer in. GitHub

INTRODUCTION

Data Engineer with 7 years experience in data acquisition, data conversion, business analytics, Data visualization, and DevOps infrastructure.

SKILLS

Languages:	SQL, Python, MongoDB, JavaScript, Bash, HTML, CSS
Frameworks:	Jupyter, Pandas, Selenium, Flask, Dask, D3
Software:	Git, AWS, Microsoft Excel, Docker, AirFlow, Jenkins

EXPERIENCE

CWRU Data Analytics Boot Camp, *Cleveland, OH*   August 2018 - Present

Instructor

- Instructed students on best practices in data visualization and analysis
- Manage Git repository of sample code
- Conducted one on one tutoring
- Created supplemental lessons on topics outside the scope of the course
- achieved mean promoter scores of over 90% on student satisfaction surveys

Cleveland Gaurdians (Baseball), *Cleveland, OH*   August 2021 - Present

Data Engineer

- Troubleshoot and modernize existing SQL stored procedure based ETL
- Deploy New modern data pipeline infrastructure using Apache AirFlow
- Built tools to automate development of ETL code
- Mentor data analysts on best practices

TPA Stream, *Cleveland, OH*   June 2019 - August 2021

Data Engineer

- Built tools to help with web spider development
- Mentor junior engineers on best practices
- Setup and maintain API integrations for many data sources
- Ensure data encryption is working correctly and adheres to best practices
- Troubleshoot data related issues for customers

[On Shift](#), *Cleveland, OH* October 2018 - June 2019
Software Engineer
- Refactored code to use a single user data model
- Troubleshoot data issues with migration to new user model
- Standardized business analytics efforts across the company
- Created unit and integration tests for all new code

[Asurint](#), *Cleveland, OH* May 2017 - July 2018
Software Engineer
- Created a Python CI/CD pipeline in Jenkins for production code deployments
- Created and maintained PhantomJS/NodeJS web spiders
- Worked to avoid and mitigate bot detection software
- Extracted data from various data sources such as PDF and image files
- Created Docker containers for cloud deployments as a microservice

[Dakota Software](#), *Cleveland, OH* June 2014 - May 2017
Full Stack Web Developer
- Developed an advanced .NET application for calculating air pollutant emissions
- Created a Python ETL system to process large scale data imports for customers
- Built a SQL system to share common chemical information between customers
- Handled code deployments to production environment using Jenkins
- Built tools to streamline copying MSSQL databases to different environments
- Created a tool for automating the testing process using Selenium and Python
- Developed a Python system to scrape regulatory data from government websites

VOLUNTEER WORK
[Care Program](#), *Cleveland, OH* March 2018 - present
Tech Support Volunteer
- help elderly people with basic computer maintenance like removing virus
- teach best practices for internet safety to elderly community
- explain basic computer concepts to elderly people

RELEVANT RESEARCH
- A discussion of [digital signatures using ElGamal](#)
- A study of the [RSA cryptosystem](#) with a focus on security

EDUCATION
- Cleveland State University

  - *Bachelor of Science,* Mathematics,
    Minor, Computer Science