



Nicholas Fealey

Data Engineer



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Education

Rochester Institute of Technology
- Web and Mobile Computing BS
- GPA 3.73

Skills

Programming Languages
Python3, JavaScript, K, PHP, Java, Swift

Data Engineering
Apache Airflow, DBT, Consuming and Building RESTful APIs, Snowflake, SQL, Google BigQuery, Web Scraping w/ Selenium & Beautiful Soup

Libraries & Frameworks
Flask Web Framework, Axios, Vue.js, JQuery, React, Twitter Bootstrap, React Native

Web Technologies
HTML5, CSS, Responsive Design, Consuming RESTful APIs

Software & Development Tools
Git, Postman, Gulp.js, Apache Server, Adobe Lightroom & Photoshop

Interests

📷 Photography

🔒 Privacy and Security Research

➕ Exploring New & Upcoming Tech

🏡 City Design

Job Experience

Data Engineer | PepsiCo

October 2020 – Present | Remote

- Builds data pipelines in Apache Airflow to drive business insights
- Upgrades data pipelines from processing email-sent data to use API sources where available
- Led initiative to standardize data pipelines across the team, ensuring consistent DAG structures that improved usability and reduced debugging time
- Use tools and languages such as Python3, Airflow, Snowflake, AWS, and REST/SOAP APIs

Data Engineer | 1010data

October 2020 – Present | New York, NY

- Migrate data pipelines from the data center to the cloud
- Update data pipelines from Airflow 1.X to 2.X
- Build data pipelines in Apache Airflow to bridge data from various data sources into the 1010 platform
- Build custom airflow operator to facilitate data flow from SFTP to AWS S3
- Use tools and languages such as Python, REST/SOAP APIs, web scraping, 1010 query language, and K

Software Engineer | Publicis Sapien

June 2019 – October 2020 | New York, NY

- Built data connectors in Python to automate the flow of data between various platforms using a variety of APIs/interfaces for a Fortune 500 company
- Automated the sanitization and validation of data flowing through data connectors
- Created and executed structured deployment plans when updating production code
- Built and integrated a REST API in GCP to scrape web data in real time with Selenium and Beautiful Soup
- Used tools such as Google Cloud SQL, GCS, Big Query

Software Engineer Intern | Federal Reserve Board of Governors

June 2018 – August 2018 | Washington, D.C.

- Achieved a 37% reduction in asset size across the landing pages by optimizing images
- Achieved a 90% reduction in project build time by improving the Gulpfile
- Achieved an improvement of 200ms in the website's rendering time by incorporating CSS & JS minification, concatenation of CSS/JS files, and critical rendering improvements
- Researched and delivered a deployment plan to determine best practices for HTTP compression algorithms

Front End Engineer | Ahold USA

July 2016 – December 2016 | Quincy, MA

- Built a mobile optimized front end for a chatbot application
- Built POCs to facilitate the team's tech stack selection using React, React Native, NativeScript, AngularJS, Node.js, and Ionic
- Reduced load time in website and mobile apps by optimizing images

Web Developer | Rochester Institute of Technology

December 2015 – 2016 | Rochester, NY

- Built website to showcase a graduate forensics research project

Volunteer Work

South of South Neighborhood Association

2024 – Present | Philadelphia, PA

- Elected Board Member and Zoning Committee Member
- Provides technical support for the organization
- Gathers public input, tally votes, and contributes insights to discussions on proposed zoning changes and neighborhood improvements
- Active member of the Clean and Green Committee and the Vision Zero Committee