

Nicholas Fealey

Data Engineer



nicholasfealey.com



nfealey@protonmail.com

Education

Rochester Institute of Technology

- Web and Mobile Computing BS
- GPA 3.73

Skills

Programming Languages

Python, JavaScript, Java, PHP, K, Swift

Data Engineering

Apache Airflow, DBT, Snowflake, Databricks, REST APIs, SQL, Google BigQuery, Web Scraping

Libraries & Frameworks

Flask, Selenium & Beautiful Soup, Axios, Vue.js, jQuery, React

Web Technologies

HTML, CSS, Responsive Design

Software & Development Tools

Git, VS Code, Claude Code, Postman, Gulp.js, Apache Server

Projects

LegalStampy (legalstampy.com)

Founder & CEO; Bitcoin-anchored file timestamping service for law firms

Interests

Photography

Privacy and Security

Emerging Tech & Blockchain

City Design

Volunteer

South of South Neighborhood Association (2024 – Present)

Elected Board & Zoning Committee Member, and Chair of the Vision Zero Committee

Job Experience

Data Engineer | PepsiCo

November 2022 – Present | Remote

- Led the organization's first Airflow 2 to 3 migration, upgrading 200+ production DAGs; Established the documentation and hosted sessions that enabled efficient migrations on other teams
- Led development of a centralized data hub of ~12 data pipelines, substantially improving reliability and delivery timelines
- Standardized DAG structure across the team's data pipelines, improving reliability and code readability
- Improved existing connectors and documentation, supporting the long-term health of the team's core data product
- Migrated pipelines from email-delivered data feeds to API sources, improving reliability & data quality
- Host knowledge transfer sessions to share technical practices and project learnings across teams

Stack: Python, Airflow, DBT, Databricks, Docker, AWS, REST APIs

Data Engineer | 1010data

October 2020 – November 2022 | New York, NY

- Built data pipelines in Apache Airflow to bridge data from various data sources into the 1010 platform
- Updated data pipelines from Airflow 1.X to 2.X
- Migrated data pipelines from the data center to the cloud
- Built custom Airflow operator to facilitate data flow from SFTP to AWS S3

Stack: Python, K, 1010data Macro Language, REST/SOAP APIs, web scraping (Requests, Beautiful Soup, Selenium)

Software Engineer | Publicis Sapient

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

Stack: Google Cloud SQL, Google Cloud Storage, Google BigQuery, Jenkins, JIRA, Docker

Software Engineer Intern | Federal Reserve Board of Governors

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

- Decreased landing-page asset size by 37% through image optimization
- Reduced project build time by 90% by improving the Gulpfile
- Sped up website rendering by ~200ms through CSS & JS minification, file concatenation, 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