

# M. Ben Pearson

## Software Engineer with with a focus on Data

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### Skills and Qualifications

- **Languages:** Python, SQL (including MySQL), HTML, CSS, JavaScript, Bash, Java, C++
- **Frameworks and Tools:** Git, Linux, Amazon Web Services (AWS), Django, Flask, REST, Apache, Grafana, Highcharts, Bootstrap, Gridstack, ElasticSearch, RabbitMQ, Selenium, FFmpeg, Postman, Memcached

### Work Experience

- **Senior Data Engineer, Anuvu - Chicago, IL** Apr 2018 – Mar 2023  
Built media ingestion REST API using Flask. Made major performance optimizations for several systems, including a Django-based aircraft monitor tool and high volume log parsers. Refactored front and back ends of modular dashboarding system for custom report design. Designed complex data models to coordinate media asset deployment across multiple airline fleets. Contributed to ETL pipeline responsible for ~1TB/day of flight data using Python, MySQL, Bash, Grafana, and AWS. Managed and mentored four entry-level engineers and interns. Added Selenium testing harness and instituted formal deployment process for production reporting platform.
- **Software Engineer, Lyrical Labs, LLC - Chicago, IL** Mar 2015 – Dec 2017  
Developed Java backend for H.264/H.265 video encoding system. Built and deployed REST API for cloud video encoding. Built video quality testing harness using Python and VMAF.
- **Software Development Intern, Innomatix - Coralville, IA** May 2014 – Jul 2014  
Designed a suite of customizable data filters in C++ for use in an embedded vehicle testing and maintenance system. Developed a prototype GIS module for intermittent vehicle tracking.
- **SQL Programmer, University of Iowa Energy Control Center** May 2013 – Jan 2015  
Developed SQL queries and views relating to campus-wide energy production and consumption. Built various VBA scripts to sanitize and parse Excel energy reports.

### Education

- **Bachelor of Science in Electrical Engineering**, University of Iowa Dec 2014  
Computer Engineering Track. Specialization in Sustainability, Minor in Mathematics