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
- *Frameworks and Tools:* Git, Linux, Amazon Web Services (AWS), Django, Flask, REST, Apache, Grafana, Highcharts, Bootstrap, ElasticSearch, RabbitMQ, Selenium, FFmpeg

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 log parsers. Designed complex data models to coordinate media asset deployment across multiple airline fleets. Developed 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 testing harness with Selenium, 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.

- *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.

Projects

"Dowsing Cane" Assisted Navigation Device   Completed May 2014
University Senior Project. A bluetooth-enabled cane paired with a custom Android app using Google Maps, allowing vision-impaired users to navigate purely via haptic feedback.

Education

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