Robert Bennett

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rben01

Work Experience

Web Developer and Data Analyst, World Science Foundation — New York, NY April 2020–Present

- Perform miscellaneous backend data-related tasks, producing structured data from unstructured data using Rust's <u>Polars</u> dataframe crate, and creating reports and visualizations of data using Julia.

Freelance Software Developer (part-time, concurrent with the above) December 2021-May 202

- Developed an app for client that uses QuickBooks API to connect to client's account, download invoice data, and produce PDFs containing line items and all associated attachments, receipts, etc.
- Wrote algorithm to lay out text on PDF entirely from scratch by inspecting glyph sizes and computing line wrapping locations.

Experienced Analytics Associate, PricewaterhouseCoopers — New York, NY August 2016-August 2019

 Built analytics models and pipelines to ingest and clean data and to produce models providing clients with actionable insights. Data analytics skills and techniques included big data pipelines, clustering, timeseries modeling, linear models, and ML/neural nets.

Education

Bachelor of Science, Harvey Mudd College — Claremont, CA

2012-2016

- GPA 3.58/4.00. Major in Mathematics. Minor in Economics. Graduated with Distinction.
- Senior Thesis: Fibonomial Tilings and Other Up-Down Tilings (2016). Parameterized the problem of Fibonomial tilings and a similar class of tilings in a way that unified and generalized existing work.
- Computer Science and Math Courses: Data Structures, Algorithms, Statistical Linear Models, Numerical Linear Algebra, Graph Theory, Computability Theory, Topology, Real Analysis, Abstract Algebra

Personal Projects

Collagen: The Collage Generator

rben01/collagen

 Collagen aims to alleviate the widespread rasterization of vector graphics and other inappropriate use of image formats by defining a specification for combining images and SVG elements into a single file.

COVID-19 Tracker

rben01/covid19

A website with graphs to help track the spread of COVID-19 throughout the U.S. and the world. The
frontend was built with d3 and Asciidoctor, the backend (data ingestion, cleaning, joining, etc.) with the
Python data science stack.

Advent of Code 2021

rben01/advent_of_code_2021

Did all 25 problems in Rust and wrote up accompanying explanations.

Programming Languages and Libraries

Rust, HTML+CSS+JS, d3, Webpack, Three.js, Julia, Python (core language + data science stack), POSIX shell + Bash, Git, LaTeX