

BEN CARNEIRO

SOFTWARE ENGINEER

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Portfolio: bencarneiro.com

Full-Stack Engineer with 5 years of experience in developing innovative data visualization platforms and business intelligence solutions. Expert in Python, Django, GIS tools, and database architecture. Passionate about making public data accessible to everyone.

SKILLS AND INTERESTS

Languages	Frameworks	GIS	Devops	Data	
<ul style="list-style-type: none">• Python• Javascript• PHP• Ruby• Go• HTML, CSS	<ul style="list-style-type: none">• Django• Flask• HTMX• FastAPI• DRF• ReactJS• Angular• Node.JS• Rails• Laravel	<ul style="list-style-type: none">• PostGIS• Esri ArcGIS• QGIS• mapbox• maplibre• folium• OSM• geopandas• geodjango• tippecanoe• GDAL	<ul style="list-style-type: none">• Linux• Git• BASH• nginx• AWS• Azure• terraform• docker• kubernetes• playwright	<ul style="list-style-type: none">• MySQL• PostgreSQL• PostGIS• Pandas• Numpy• Matplotlib• Recharts• ChartJS• D3• Metabase• Tableau	<ul style="list-style-type: none">• Apache Spark• Airlow• Kafka• databricks• snowflake• llm• pyspark• opencv• pytorch• sklearn• Excel / sheets
Media <ul style="list-style-type: none">• A/V Production• Sound Recording• A/V Editing					

WORK EXPERIENCE

Founder / Engineer | 2024-present

roadway.report

- roadway.report is a map of every traffic death in America.
- Led end-to-end development of data-driven platform, achieving 100K+ unique users
- Engineered high-performance PostGIS database architecture handling 100M+ requests, delivering nationwide traffic mortality visualization data through Python/Django
- Engineered FOSS API infrastructure enabling developers to generate location-specific mortality data visualizations across United States jurisdictions

Founder / Engineer | 2023-present

censusmaps.org

- Built a [web-application](https://censusmaps.org) to let users make free demographic maps from US Census data.
- Leveraged PostGIS, Python, and Django to launch a dynamic web platform, enabling users to generate interactive 3D demographic visualizations
- Streamlined census data access and visualization processes
- Enabled user-friendly GeoJSON export functionality, empowering users to create customized mapping solutions with comprehensive demographic data

Founder / Engineer | 2023-present

transit.observer

- Developed comprehensive transit [analysis tool](https://transit.observer), enhancing data accessibility and decision-making
- Implemented end-to-end system architecture, managing MySQL database design, Python / Django API development, and ReactJS frontend integration for seamless user experience.
- Pioneered development of intuitive visualization tools that transform raw transit data into actionable performance metrics for stakeholders

WORK EXPERIENCE (CONTINUED)

Data Engineer (Contract) | Aug 2023–Mar 2024

Wizehire

- Designed a financial data warehouse, enhancing data accessibility and decision-making processes.
- Implemented end-to-end ETL architecture integrating financial data from multiple sources
- Streamlined data integration from Stripe, Salesforce, and PandaDoc, establishing robust pipelines for real-time financial reporting and analysis
- Developed mission-critical dashboards tracking key metrics including MRR, ARR, and CAC, enabling data-driven decision making across business operations
- Utilized free technology (Python, Django, Linux, MySQL, CRON) to eliminate cloud computing costs, ensuring cost-effective solutions.

Data Operations Engineer | Sep 2021–Dec 2022

Wizehire

- Engineered full-stack Django/React solutions while building robust ETL pipelines, enhancing data operations and streamlining cross-departmental analytics workflows
- Implemented automated lead generation workflows and commission tracking systems, driving operational efficiency and sales team productivity
- Executed critical data recovery protocols and migration strategies, ensuring data integrity while maintaining comprehensive audit trails
- Developed custom SQL solutions for complex analytics challenges, enabling data-driven decision making across departments
- Partnered with analysts to optimize KPI dashboards, resolve SQL complexities

Data Operations Intern | May 2021–Sep 2021

Wizehire

- Assisted in data analysis projects, enhancing operational efficiency and accuracy.
- Collaborated with engineering teams, improving data processing workflows.
- Utilized programming skills to automate data collection, reducing manual effort.
- Contributed to team meetings, providing insights for data-driven decisions.

Server | March 2017–Feb 2021

Home Slice Pizza

- Delivered exceptional service to 100+ daily guests while managing hundreds of pizzas, maintaining high customer satisfaction and efficient order processing
- Coordinated with kitchen staff to ensure accurate order timing and presentation, reducing service delays and enhancing dining experience
- Trained new team members on service protocols and menu knowledge, fostering a supportive environment and maintaining service standards

EDUCATION

University of Texas at Austin | 2013–2016

Bachelor of Science in Radio–Television–Film (High Honors)

- Minor: Chemistry, Math
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