Richard Gibson

Software developer, Data researcher, Digital Cartographer, GigaPanner, General Tinkerer
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Most Popular Skills

Programming	Data	Databases and Cloud	Geospatial
• Python • Django • Flask • Jupyter • Pandas • GeoPandas • Docker	• Precisely • LightBox • Ookla • American Community Survey • SafeGraph • FCC 477 Data Collection • FCC Broadband Now Data • ISP filings	• BigQuery • Google Cloud • PostGIS • Crunchy Data • AWS, RDS	• GDAL • QGIS • Foursquare Studio • ETL with spatial and non spatial data

Additional Skills: Modern dev tools (GitHub, CI, testing), Columnar data (Parquet, DuckDB), Linux/etc command line tools, Airflow, GraphQ, I've spent most of my time with data and in the back end but I have been a Full Stack developer and I still no how to look at the developer tools in the browser. GeoServer and GeoNode. Ran geocoder.us (A US Geocoder) for 10+ years). High resolution (gigapixel and up) processing and pipelines.

Previous Experience

Hexvarium - Sr. Software Engineer and Data Researcher
(also Paxio, OpenFiber, and Open5G)
May 2017 - June 2023
Competitive data research for national fiber initiatives, Digital cartography, ISP filing, Stakeholder presentations, Software development

Rigel Pharmaceuticals - Software Engineer
Dec 2015 - Nov 2016
Worked with a Django applications using MySQL and MongoDB to manage microscope images and immunotherapy research pipeline.

Scale Independent Imaging – Founder & Developer
January 2015 – November 2016
Built a macro scale high resolution imaging lab allowing focus stacked and stitched high-resolution images (GigaPans)

Brave New Talent - Developer
April 2014 – June 2014
Developed code and implemented tests for large SOA knowledge-sharing platform. Integrated external services and datasources and content search with Elastic Search

Eyegorithm - Director of Engineering
November 2012 – July 2013
Software Engineering in Python/Django. Translated ideas of stakeholders into prototype web code.

Carnegie Mellon University at NASA Ames Research Center - 'Gigapanner' and Software Engineer
September 2008 – November 2011
Led GigaPan project with CMU CREATE Lab and NASA's Intelligent Robotics Group. Developed client-server Stitching Farm in Django to simplify regression testing. Designed and built hardware kit to automate manual microscopes in Explorable Microscopy project.

Meadan - Senior Engineer
May 2007 – September 2007·
Designed and implemented architecture for initial Meedan systems in Ruby on Rails

O'Reilly Media – Author
Co-authored *Mapping Hacks: Tips & Tools for Electronic Cartography* (2005)
Contriubed to *Wireless Hacks: Tips & Tools for Building, Extending, and Securing Your Network* (2005)
Co-authored *Google Maps Hacks* (2006)
Presented at multiple conferences, including O'Reilly's Open Source Conference (OSCON)

Zappos.com - Software Engineer
January 2001 – August 2002
Full stack developer for Perl-based Zappos system, implemented payment by Military STAR Card and first instance of UPS return on web functionality.

Hobbies and Interests

So many, just ask!