Brendan Maione-Downing

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github.com/bmd

Experience

Current Jul 2016	**Associate Software Architect, Blue State Digital** I work with executives, product stakeholders, and software engineers to design, build, and deliver complex, data-driven software on time and within budget, using a wide range of tools and technologies. I leverage my expertise in **ReST API design** and **contract-driven development** to engineer scalable, performant services using **PHP** and **AWS**. I've contributed to data warehousing, single sign-on, and API design projects for BSD's next-generation data products, as well as mentoring developers and leading internal trainings and workshops. *Recognition*: BSD Internal Hackathon, Innovation Award winner (3x) and Overall Award winner (2x); BSD Employee Awesomeness Award (2015)
2014-2016	**Analytics Architect, Blue State Digital** I re-defined and expanded a multifaceted role that encompassed web analytics, data science, software engineering, and database management. As the advanced analytics practice lead, I architected fundraising and engagement projections for non-profit clients, using **time series** and **neural network** methodologies in **R** and **Python**. I designed, executed, and scaled **Google Analytics** and **Omniture** for enterprise and non-profit clients like *Heifer International*. I also provided data management and architecture recommendations for clients including *Royal Caribbean* and *UNICEF*. My most significant project was the Abacus data platform - an ETL and reporting tool that unified all legacy custom reporting solutions into a single system, delivering over 100 reports daily and 4B rows of data annually with a 99.99% fulfillment rate.
2013-2014	**Research Associate, Prima Health Analytics** I developed and supported statistical, financial, and geospatial models for clients in the renal dialysis industry using **R**, **Python**, and **ArcGIS**. My analysis was featured at industry conferences on behalf of clients including *Amgen* and the *National Renal Administrators Association*. I also served as lead developer on software that automated comparison of cost and outcome metrics to national and competitor averages, driving over $100,000 in licensing revenue in its first year.
2010-2013	**Managing Editor, Digital Atlas of Roman and Medieval Civilizations** I managed project timelines, prioritized work, and supervised an international team of between 5 and 15 undergraduate and graduate contributors, serving as a main point of contact to faculty and university leadership. I also conducted exploratory analysis on a wide range of historical and geospatial data to produce results and figures for publication using **Python**, **ArcGIS**, and **ArcPy**.

Technologies

Languages:	Python (Flask, Django, Scipy), PHP (Laravel, Symfony, PHPUnit, Doctrine), JavaScript (Jquery), R (Shiny)
Containerization:	Docker, Amazon ECS
Web Technologies:	Apache, Nginx, AWS
Databases:	MySQL, Postgres, Redshift, Vertica, Redis, Cassandra, DynamoDB, SimpleDB
Project Management:	JIRA, Smartsheets, Agile (Scrum)
Standards:	Git, TDD, Contract-Driven Development, ReST, Swagger, RAML, Object-Oriented Design

Education

May 2013	B.A. in History, **Harvard University**, Cambridge, MA