

# JOHN BENJAMIN WARFIELD

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## Education

<b>Stanford University</b> , School of Engineering MS Aeronautical and Astronautical Engineering MS Civil and Environmental Engineering	<b>GPA 3.5</b>	<b>2011</b> <i>Stanford, CA</i>
<b>University of Virginia</b> , School of Engineering and Applied Sciences BS Aerospace Engineering w/ Honors	<b>GPA 3.6</b>	<b>2005</b> <i>Charlottesville, VA</i>

## Work Experience

<b>Ethos Lending</b> Data Engineer	<b>2018 - present</b> <i>San Francisco, CA</i>
<ul style="list-style-type: none"><li>Built models and ran experiments to drive lead assignment by estimating lead owner with greatest chance to convert using scikit-learn, Pandas, NumPy</li><li>Experience with the Selenium browser automation Python library for data mining and near real-time pricing adjustments</li><li>Responsible for building and maintaining all data warehousing and data pipelines using SQL Alchemy + Alembic in Python</li><li>Gained proficiency in code unit testing, linting, and Git version control</li></ul>	
<b>Sunrun</b> Data Engineer	<b>2015 - 2017</b> <i>San Francisco, CA</i>
<ul style="list-style-type: none"><li>Designed and built web applications using R and Shiny library to automate sales reporting</li><li>Experience integrating SOAP and REST APIs with Python</li><li>Use of MySQL, SOQL, and Oracle SQL for custom calculations and inputs for statistical modeling</li><li>Built dashboards for a range of stakeholders within the company in Tableau</li></ul>	
<b>Impact Reactor LLC.</b> GIS Analyst (Contract)	<b>2013 - 2014</b> <i>San Francisco, CA</i>
<ul style="list-style-type: none"><li>Performed GIS study to estimate solar energy potential of BART and Caltrain station roofs</li><li>Worked with multiple large datasets to account for meteorological effects, terrain, shading, and resources</li></ul>	
<b>Johns Hopkins University</b> , Dept. of Earth and Planetary Sciences PhD candidate, Research Assistant	<b>2011 - 2012</b> <i>Baltimore, MD</i>
<ul style="list-style-type: none"><li>Focused on research projects in the fields of physical oceanography and geophysical fluid dynamics</li><li>Experience with MITgcm general circulation model to simulate Denmark Strait Overflow current</li><li>Performed extensive analyses of numerical model results and large multi-dimensional data sets</li></ul>	
<b>GL Garrad Hassan America</b> Wind Energy Analyst Intern	<b>2010</b> <i>Portland, OR</i>
<ul style="list-style-type: none"><li>Performed wind energy resource assessments to estimate annual utility-scale wind farm production</li><li>Experience with WAsP wind flow model and GH WindFarmer software</li><li>Quality control and analysis of anemometer data from meteorological masts</li></ul>	
<b>Climate Central</b> Research Analyst	<b>2009 - 2010</b> <i>Palo Alto, CA</i>
<ul style="list-style-type: none"><li>Signal analysis of link between decreasing pacific coast fog levels and climate change</li><li>Performed empirical orthogonal function analyses of sea level pressures to isolate natural variability</li></ul>	

## Technical Skills

Python	R	SQL
Git	Tableau/PowerBI	scikit-learn, Pandas, NumPy

## Interests

Skiing - Part-time Squaw Valley Ski Team coach, PSIA certified | Sailing - raced 420s, FJs, Lasers, Stars | Kiteboarding | Open-water swimming | Cycling | Physics | Astronomy | Renewable Energy | Board Games | PC Games