JOHN BENJAMIN WARFIELD

GET@WARFDOGG.COM ◆ 410.456.6220 ◆ 1481 HAIGHT ST SAN FRANCISCO, CA 94117

Education

Stanford University, School of Engineering — **GPA 3.5** — **2011**
MS Aeronautical and Astronautical Engineering — *Stanford, CA*
MS Civil and Environmental Engineering

University of Virginia, School of Engineering and Applied Sciences — **GPA 3.6** — **2005**
BS Aerospace Engineering w/ Honors — *Charlottesville, VA*
Minor in Physics

Work Experience

Sunrun — **2015 - present**
Sr. Data Insights Engineer — *San Francisco, CA*

- Designed and built web applications using R and Shiny library to automate sales reporting
- Write Python scripts and run SOAP requests to assist with reporting from disparate data sources. Use of cron to automate tasks
- Write R scripts to perform automated queries in MySQL, SOQL, and Oracle SQL for custom calculations and inputs for statistical modeling

RoundhouseOne / MKThink — **2013 - 2015**
Data Analyst — *San Francisco, CA*

- Performed data-driven analyses to drive design in the built environment and deliver business-relevant insight through physical, environmental, and cultural data
- Experience in a fast-paced, start-up environment and the many roles it requires
- Extensive use of MATLAB, Python, and proprietary 4daptive software to drive analyses

Impact Reactor LLC. — **2013**
GIS Analyst (Contract) — *San Francisco, CA*

- Performed GIS study to estimate solar energy potential of BART and Caltrain station roofs
- Worked with multiple large datasets to account for meteorological effects, terrain, shading, and resources

Johns Hopkins University, Dept. of Earth and Planetary Sciences — **2011 - 2012**
PhD candidate, Research Assistant — *Baltimore, MD*

- Focused on research projects in the fields of physical oceanography and geophysical fluid dynamics
- Experience with MITgcm general circulation model to simulate Denmark Strait Overflow current
- Performed extensive analyses of numerical model results and large multi-dimensional data sets

GL Garrad Hassan America — **2010**
Wind Energy Analyst Intern — *Portland, OR*

- Performed wind energy resource assessments to estimate annual utility-scale wind farm production
- Experience with WAsP wind flow model and GH WindFarmer software
- Quality control and analysis of anemometer data from meteorological masts

Climate Central — **2009 - 2010**
Research Analyst — *Palo Alto, CA*

- Signal analysis of link between decreasing pacific coast fog levels and climate change
- Performed empirical orthogonal function analyses of sea level pressures to isolate natural variability

Technical Skills

R	Python	MATLAB
C++	ArcGIS	SQL

Interests and Other Skills

Skiing - Squaw Valley Ski Team Coach, Level 1 PSIA certified
Sailing - Basic Keelboat instructor; compete in Laser and Star classes
Squash - Univ. of Virginia Collegiate Team and young professional board member of Squash Drive in San Francisco