Seth Blanchard 703.399.9974 / blanchard.seth@gmail.com

OBJECTIVE

To apply my web development and user experience design skills to client challenges in the areas of data analytics and visualization.

SUMMARY OF QUALIFICATIONS

- Eight years of software development experience, primarily focused on web application development
- Strong front end development skills in HTML, CSS and JavaScript
- User experience design and review experience
- Information architecture and database design
- Data processing and visualization

EDUCATION

Bachelor of Science, Mathematics, Applied Computational Option / May 2004
Virginia Polytechnic Institute and State University, Blacksburg, VA

TECHNOLOGIES

C#, Asp.NET, Asp.NET MVC, Entity Framework, MS SQL Server, HTML, JavaScript, CSS, jQuery, SASS, LESS, Raphael.js, Processing, d3.js, Perl, R, VB.Net, VBA

NOBLIS / AUGUST 2008 – PRESENT

Principle Software Developer Sept 2013 – present | **Lead Software Developer** June 2012 – Sept 2013
Senior Software Developer Sept 2010 – June 2012 | **Staff Software Developer** Aug 2008 – Sept 2010

Sustainable Facilities Tool (SFTool) Lead developer / Mar 2010 - Present

The General Services Administration (GSA) Sustainable Facilities Tool (SFTool) supports decision-making regarding sustainable building principles, materials, systems and products for Federal agencies in acquiring world-class work environments. SFMobile, the mobile application for the SFTool was an Excellence.gov award finalist.

- Led redesign effort of the site from a fixed width site to a responsive site
- Conducted user analysis, helped develop requirements, designed and implemented the data model, application logic and presentation layer that are the core of the SFTool
- Converted the Green Product Compilation (GPC) from an Excel-based worksheet into the "Procurement" module on the SFTool

Noblis Center for Digital Excellence Execution Manager / Sept 2013 - Present

The Noblis Center for Digital Excellence is an internal organization designed to maximize the organizational skills in the areas of software development.

- Assisted account managers in reviewing staffing needs and tracking business development opportunities
- Created and managed a bi-weekly technology and process presentation event to drive information sharing and technique improvement across the company
- Led the development of User Experience Design and Data Visualization marketing "cut sheets"

Networx Hosting Center Mod Review Tool User Experience Design Lead / Oct 2013 - Present

The Networx Hosting Center Mod Review Tool allows GSA staff to review contract modification submissions by approved vendors to the Networx contract.

- Collaborated with project owner to learn project goals and client requirements

- Conducted end user research to understand how the tool was currently being used and what improvements could be made
- Translated project goals and user research into design documents and update project wireframes.
- The updated application uncovered process errors and improved process transparency

Sustainability Expert Network Directory (SEND) Lead Developer / Dec 2012 – June 2013

SEND is designed to connect sustainability information seekers to GSA subject matter experts (SMEs) quickly and easily. This can help increase GSA's total shared knowledge, connecting GSA SMEs to fellow employees.

- Architected and built the data model, parsed, transformed and loaded the survey data into a database
- Worked with the client and a graphic designer to come up with a visual solution allowing both knowledge seekers and decision maximize the impact of the data.
- Developed core data visualization and developed the interactive JavaScript application using Raphael.js
- Implemented a custom filtering engine in JavaScript to handle the data between visualization states.

PIONEERS / PERU / JUNE 2007 – MAY 2008

Missionary

- Worked with long term missionaries assisting with ministry activities
- Assisted in the construction of two homes in the Andes
- Home-schooled 3 children while living in the Jungle
- Learned to speak conversational Spanish

SAIC / RESTON, VA / JUNE 2004 – MAY 2007

Simulation and Automation Specialist

- Performed process and software development on a new signal discrimination technology. Tasks included writing data processing algorithms (software) as well as selecting a database, designing the database structure, and managing the database
- Worked on development and maintenance of the web based tracking application HAZOUT for US TSA
- Helped develop data pre-and post-processing software suites, including GUIs, for several different groundwater models
- Created easy to use software tools for the automation or optimization of small tasks relating to data processing and analysis

PUBLICATIONS AND PRESENTATIONS

S. Blanchard, Y. Fann. **"Improving Green Purchasing Through Integration"**; Building Real Tools for Sustainable Acquisition; Green Gov September 2012

S. Blanchard. **"Giving Data a New Face"**; Sigma Journal: Inside the Digital Ecosystem. Noblis, October 2011

C. Campbell, S. Blanchard, S. Chin, C. Henderson, M. Holland, K. Jennings, P. Kuehl, D. Lucey, M. McCoy, J. McCracken, B. Pecheux, M. Pietrzak, D. Roberts, M. Sanders, K. Taylor, D. Whitford, R.P. DiMassimo. 2010. **Multi-Viz Data Fusion VAST 2010 Grand Challenge Award: Outstanding Debrief.** IEEE VAST 2010, Salt Lake City Utah.

C. Campbell, M. Holland, S. Blanchard, R.P. DiMassimo, J. McCracken. **Protoviz and Processing: Tracing the Mutations of Disease; VAST 2010 Mini Challenge 3**. IEEE VAST 2010, Salt Lake City Utah.

Deschaine, L.M., Francone, F.D., Pinter, J., McKay, M., Warren, J. and Blanchard, S. 2006. **Finding and Identifying Objects Based on Noisy Data: A Global Optimization Approach: In Proceedings.** EURO XXI 2006, Reykjavik, Iceland. The Association of European Operational Research Societies.