Brian Loomis   808-754-8925 | brianloomis@hotmail.com
                                              http://blrespub.s3-website-us-east-1.amazonaws.com

Objective: To design and lead the development of business solutions using modern web architectures

Experience:

Atonix Digital / Black & Veatch, Overland Park, KS

Senior Software Programmer / Analyst, 5/2017 – Current
Software Programmer / Analyst, 9/2014 – 5/2017

Atonix Digital is a wholly-owned subsidiary of the Black & Veatch Holding Corporation. Atonix Digital develops and offers a suite of software solutions that help businesses and utilities boost efficiency, increase accuracy of planning and improve day-to-day decision-making in an ever-changing landscape.

- ASSET360 platform development
- Architecture Review Board
- Development team leadership role
- Co-lead of implementation team for AWS-located streaming analytics / math engine business partner
- Design and implementation of long-running jobs framework on AWS SQS / S3
- Targeted data models
- Spatial capabilities lead
- Agile Scrum
- Consultancy across B&V units
- Intern supervision

Kansas State University, Manhattan, KS

Web Application Developer, 9/2013 – 8/2014

The K-State Climate Change and Mitigation in the Great Plains, funded through the National Science Foundation, included objectives to study the climatic history of Kansas, develop mitigation practices to reduce the economic impact of climate change, and increase the public's understanding of long-term climate trends in Kansas.

- Development of Geographic Information Systems web platform providing interaction with Kansas historical climate data
- Communication with target user groups
- User support / training

City and County of Honolulu, Honolulu, HI

Geographic Information Systems Developer / Analyst, 4/2013 – 9/2013

The Honolulu Land Information System (HoLIS) is an enterprise-wide system serving over 15 City Departments with land use, permit, tax, infrastructure, and environmental data.

- Development of ArcGIS Server geometric network tracing Server Object Extension for consumption by multiple City web applications
- Promotion of storm drain web application
- User support / training

HI-Tech Urban Solutions, Honolulu, HI

HITUS provided advanced geospatial visualization and 3D data management services.

Developer, 12/2006 – 3/2013

- Management and technical lead of NPDES-driven storm drain data conversion, integration, and access project with City and County of Honolulu
    o Geodatabase design / development
    o Conversion team supervision
    o Long-term workflow design / implementation / training
    o Web application design / development / release management
- Management and technical lead of stream inventory data conversion, integration, and access project with City and County of Honolulu
- Prototype design, development, and marketing of Building Information Management System integrating 3D building model, 2D architectural drawings and real-property data
- 3D analysis and modeling of LIDAR data for State of Hawaii Attorney General

Lobaserv, Honolulu, HI

Principal, 9/2006 – 12/2006

Lobaserv was an entrepreneurial venture centered around a mission to monetize emerging web mapping technologies.

- Microsoft Virtual Earth web-based mapping application design / development - "Hiki No!"
- 2006 HCPO/PacGeo conference presentation / demonstration - "Hiki No!"
- Prospective client proposal development and presentation
- Founded business within State of Hawaii licensing structure

Woolpert, Honolulu, HI

Web Application Developer, 8/2004 – 9/2006

Woolpert is a national architecture, engineering and geospatial (AEG) firm that delivers value to clients by strategically blending engineering excellence with leading-edge technology and geospatial applications.

- Technical lead for 3rd phase enhancements to web-based GIS information portal for Honolulu Board of Water Supply
- Microsoft SQL Server design / development / administration
- External systems integration

- Geodatabase design / development

Appleton-Whittell Research Ranch of Audubon, Elgin, AZ

Geographic Information Analyst / Intern, 6/2002 – 8/2003

The Research Ranch is a cooperative partnership among the National Audubon Society, U.S. Forest Service, Bureau of Land Management, The Nature Conservancy, Swift Current Land & Cattle and The Research Ranch Foundation. The 8,000 acres are managed by Audubon and portions of the land include the Corondo National Forest and Las Cienegas National Conservation Area. For more than 30 years, the Research Ranch has protected grassland ecosystems through conservation, research, and education.

- Data warehouse / metadata library design and development
- Data collection and editing
- Habitat and development land-use analysis and thematic and presentation mapping
- Public, government agencies, and advocacy groups liaison

Community:

Celtic Pipes & Drums of Hawaii, Honolulu, HI

Webmaster, 11/2012 – 12/2014

- Website redesign
- Content production and management

Hawaii Geographic Information Coordinating Council, Honolulu, HI

Board Member, 8/2005 – 7/2009

- 2006 Oahu GIS Day coordinator
- Luncheon Speaker Series coordinator
- Scholarship committee

Education:

University of Redlands, Redlands, CA

M.S. Geographic Information Systems, conferred 2004

- Thesis: Sonoita-Elgin (AZ) Emergency Services, Inc. Geographic Information System
- ESRI grant to help fund the Sonoita-Elgin Emergency Services, Inc. GIS program

University of Kansas, Lawrence, KS

B.A. Environmental Policy, conferred 2000

Proficient Tools, Technologies, & Concepts:

- AWS Well-Architected Framework
- Agile - Scrum
- C#
- SQL Server
- Angular JS
- MS Visio
- Communication, among peers and across groups

Professional Interests:

- Modern web architectures
- Adherence to a "use the right tool" ethos
- Recognition of the real problem
- Developers that participate
- Balanced teams that prioritize communication