



## Nikolas Stevenson-Molnar

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### **Conservation Biology Institute**

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Nikolas Stevenson-Molnar has more than 8 years of experience developing desktop- and web-based software for the environmental science field, and an enthusiasm for finding collaborative solutions to complex, real-world challenges. He is highly self-motivated, and able to work independently or collaboratively to develop innovative solutions in a fast-paced, dynamic environment. Nik is a technology generalist with expertise using many programming languages, frameworks, and tools, and is able to work proficiently with all aspects of application development, from conceptualization, architecture, and implementation, to deployment, server management and infrastructure planning, and user support. He is able to understand and effectively communicate technical complexity and provide thought leadership on technology concepts and processes.

### **EDUCATION**

Bachelor of Arts and Sciences, Software Engineering and Visual Media, The Evergreen State College, 2008

### **EMPLOYMENT HISTORY**

2010 – Present, **Software Engineer, Conservation Biology Institute**, Corvallis, OR

2007 – 2010, **Software Developer, The Evergreen State College**, Olympia, WA

### **SELECT PROJECT EXPERIENCE**

#### **Software Engineer for Data Basin** (*Wilburforce Foundation, Kresge Foundation, et al.*)

Contributing to the design, development, deployment, and maintenance of Data Basin (<http://databasin.org>), a cutting-edge conservation data sharing, visualization, and analysis platform. Data Basin was designed to directly enable information sharing between conservation scientists and conservation practitioners, agency staff, educators, and the public through easy-to-use data sharing, interactive mapping, collaboration, and analysis tools. Significant contributions include:

- Building and improving the import process for spatial data using ArcGIS Server, open source libraries, and custom-built libraries.
- Developing an open-source NetCDF map server framework which is used by Data Basin to allow users to import and visualize time-series NetCDF raster data.
- Creating procedures for better managing servers, configurations, and other application infrastructure.
- Implementing support for integration with other data sharing platforms.



## Software Developer & Architect for the VISualization of Terrestrial-Aquatic Systems (VISTAS) (*National Science Foundation*)

Designing and implementing VISTAS, a plugin-based visualization tool for scientists. VISTAS is part of an NSF-funded research project to help scientists understand relationships among ecological processes, develop new hypotheses, and explain research results. The software is co-developed with environmental scientists who use it to better understand and present their data.

## PUBLICATIONS

- J. Cushing, E. Hayduk, J. Walley, L. Zeman, K. Winters, M. Bailey, J. Bolte, B. Bond, D. Lach, C. Thomas, S. G. Stafford, and **N. Stevenson-Molnar**. 2012. (IN?)Extricable Links between Data and Visualization. SSDBM June 2012, 613-617.
- Kopytko, N., Cushing, J., Zeman, L., **Stevenson-Molnar, N.**, Martin, F., Kelley, E. 2009. Making Ecology Research Results Useful for Resource Management: A Case Study in Visual Analytics. Digital Government Conference. (DG.O 2009).
- Cushing, J.B., Kopytko, N., **Stevenson-Molnar, N.**, Zeman, L., Stafford, S., Bolte, J., Bond, B. Lach, D., and McKane, R. 2009 Enabling the Dialog – Scientist<>ResourceManager<>Stakeholder: Visual Analytics as Boundary Objects, IEEE Intelligent Systems, Special Issue on AI, E-Government and Politics 2.0 (Hsinchun Chen, ed.), Sept-Oct. 2009.
- Cushing, J., Zeman, L., Kopytko, N., **Molnar, N.**, McIntosh, A., Nadkarni, N., Delcambre, L., Maier, D., Martin, F., Keeley, T. 2008. Visualizing tree crowns for forest managers: informatics tools enhance natural resource management. Proceedings of the 2008 international conference on Digital government research.