



Nikolas Stevenson-Molnar
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Nikolas Stevenson-Molnar has been a software engineer at CBI since 2010 and has led its software development team since 2019. He has spent his career in software building applications for the environment science field and working with clients and stakeholders to find solutions to complex, real-world challenges. Nik is able to work proficiently work across all aspects of software development, including conceptualization, design, architecture, implementation, deployment and operations, maintenance, and user support. As a leader, he focuses on understanding the needs of the team, and ensuring they have the proper resources, context, and space to do their best work.

EDUCATION

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

EMPLOYMENT HISTORY

2019 – Present, **Lead Software Engineer, Conservation Biology Institute**, Corvallis, OR

2010 – 2019, **Software Engineer, Conservation Biology Institute**, Corvallis, OR

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

SELECTED PROJECT EXPERIENCE

USDA Conservation Reserve Program—Led the architecture, design, and development of an application to serve a variety of users involved in the largest private conservation program in the U.S. Worked with CBI staff and external stakeholders to identify user needs and implement solutions to meet them.

RePlan: Regional Conservation and Development Planning Tool—Led the development of an application that supports grant-making processes for the California Wildlife Conservation Board, Department of Water Resources, and Department of Food and Agriculture (Healthy Soils Initiative and Alternative Manure Management Program) and provides tools for landscape analysis.

Sonoma County Wildfire Resilience Planner—Led the development of a decision support tool combining science and spatial data to identify locations where the reduction of fuels will best protect lives and property in Sonoma County, California. Implemented key mapping functionality, and real time model processing based on user priorities.

SiteCheck—Led the design and development of an application created for the California Governor’s Office of Planning and Research (OPR) to streamline the development of affordable housing by helping users navigate streamlining options under the California Environmental Quality Act (CEQA). Implemented key mapping functionality allowing for the real-time, criteria-based filtering of land parcels at a county scale.

Seedlot Selection Tool--Designed and implemented a web-based GIS tool for land managers to prepare for climate change when making planting decisions. Successfully collaborated with key stakeholders to develop and refine a vision for the tool, and implemented that vision with frequent input.

Data Basin—Contributed to the design development, deployment, and maintenance of Data Basin, a conservation data sharing, mapping, and analysis platform.

SELECTED PUBLICATIONS

St. Clair, J. B., Richardson, B. A., Stevenson-Molnar, N., Howe, G. T., Bower, A. D., Erickson, V. J., Ward, B., Bachelet, D., Kilkenny, F. F., & Wang, T. (2022). Seedlot Selection Tool and Climate-Smart Restoration Tool: Web-based tools for sourcing seed adapted to future climates. *Ecosphere*, 13(5), 4089. <https://doi.org/10.1002/ecs2.4089>

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.