

# Jacob Buelow

Software Engineer

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<b>Experience</b>	<b>Luminous Studio</b>	<b>Sep 2023 - Present</b>
	Technical Lead for the game "Land of Lights" <a href="https://landoflightsgame.com">🔗 Project Website (landoflightsgame.com)</a>	Menomonie, WI
	Senior capstone project at University of Wisconsin – Stout, leading a team of 7 computer scientists and 7 artists in developing a complete video game development project from start to finish, using modern and industry standard tools and development practices.	
	<b>University of Wisconsin-Stout / Kintsugi 3D</b>	<b>May 2023 - Present</b>
	Computer Graphics Research Assistant	Menomonie, WI
	Design and development of computer graphics research software for the Kintsugi 3D project; Developing software to post-process digitized 3D scans of cultural heritage artifacts to extract high-fidelity reflectivity and lighting data, and efficiently and accurately rendering artifacts in an intuitive viewer application.	
	<b>MATE ROV</b>	<b>Oct 2015 - May 2020</b>
	Lead Robotics Programmer	Wausau, WI
	Working alongside a team of software, electrical and mechanical engineers to design, prototype, test and iterate on an underwater robot built to compete in the MATE ROV competition.	
	<b>National Science Foundation / EMMET</b>	<b>Jun 2017 - Aug 2019</b>
	STEM+C Activity Facilitator	Wausau, WI
	Developing and iterating on youth activities to teach STEM principals, organizing and facilitating events with many STEM activities for youth in rural Wisconsin.	

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<b>Education</b>	<b>University of Wisconsin-Stout</b>	<b>Sep 2020 - Dec 2024</b>
	Computer Science	B.S.
	3.5 GPA	

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<b>Skills</b>	<b>Programming</b>
	C, C++, C#, Java, Python, Rust, HTML, JS, CSS, PHP, SQL, GLSL, HLSL, UE Blueprint
	<b>Software</b>
	Unreal Engine, Unity, Godot, Blender, Windows, Linux Server, Linux Desktop, IntelliJ IDEA, Rider, Visual Studio, Eclipse, Git, Subversion, Perforce Helix Core
	<b>Other</b>
	Docker, Jenkins, GitHub Actions, CI/CD, Proxmox VE

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<b>Awards</b>	<b>Eagle Scout</b>	<b>March 2020</b>
	Boy Scouts of America	
	<b>Dean's List</b>	<b>2021, 2022, 2023</b>
	UW-Stout	