

Michael T. Bowen

(585) 635-8255 | Software Developer

[Portfolio: bichaelmowen.com](https://bichaelmowen.com) | Michael@thebowenfamly.com

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Experience

- Junior Software Developer** | Rigorous Tech Jul 2024 - Present
| *C++* | *Fanuc* | *Typescript* | *React* | *Sub/Pub model* | Burlington, VT
- Took ownership of the palletizing application by developing the UI and the robot motion planning program.
 - Increased communication speeds in a proprietary Fanuc device driver by 50%. Reduced Ethernet/IP calls over CIP to read all fanuc registers in a single communication.
 - Removed excess motion resulting in a 2x speed increase cutting our cycle times in half.
 - Managed DCS settings on the Fanuc to handle changing payloads so that the robots can run in collaborative mode removing the need for additional safety fencing.
 - Created a 3D world to map the robot scene to a virtual mirror. This allows for collision detection and path planning.
 - Rigorously tested and documented user behaviors to ensure proper fault detection and recovery.
- Full Stack Developer** | Cinquefoil Solutions May 2022 - June 2024
| *Typescript* | *Next.js* | *MongoDB* | *CI/CD* | (Remote)Rochester, NY
- Converted window quoting spreadsheets to a custom CRM web application.
 - Built the application from scratch updating it based on the needs and requirements of the client.
- VR Software Developer** | Emergent Media Center Sep 2021 - Dec 2021
| *C#* | *Unity* | *Virtual Reality* | Burlington, VT
- Integrated 3rd party olfactory VR technology into Unity VR for the Well-be OVR meditation project.

Education

- Champlain College** | Burlington, VT Graduation: May 2023
Bachelor of Science Degree in Game Programming, GPA: 3.7
Applied skills: Forward and Inverse Kinematics; 3D Collisions; Realtime Networking;
[Demo Reel: https://youtu.be/_evFuQ-EVoc](https://youtu.be/_evFuQ-EVoc)
- Semester Abroad** | Montreal, QC Jan 2022 - May 2022
Studied under game industry professionals and competed in the Ubisoft game lab competition.

Projects

- [Climb Burly](#)** | Social Media and Video Editing May 2023 - Present
| *TikTok* | *Youtube* | *Instagram* |
- Providing accessibility to outdoor rock climbing by following a “Document First” philosophy.
- [Deal Pedal](#)** | DevOps and Lead Programmer Sep 2022 - May 2023
| *Blueprints* | *C++* | *Unreal 5* | *Google Cloud* | *Jenkins* | *Git* |
- As lead created videos to help the design team to work with complex technologies.

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[React Flow Blend Graph](#) | Web / Animation Programmer

Jan 2023 - May 2023

| *C* | [Animal3D](#) | *Next.js* |

- Created 3D animation architecture for the matrix math behind forward and inverse kinematics
- Developed a web-based solution for managing blending of animations.