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/** -=Contact Info=-
* @Phone: (603) 800-1151
* @Addr: 10 Mill Rd, Durham, NH, 03824
* @Email: timothy.clocksint248@gmail.com
* @linkedin.com/in/timothyclocksint/
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Timothy Clocksin

//=====// Skills

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UNH Graduate with a B.S. in Computer Science possessing strong problem-solving and debugging skills. Eager to expand and apply the skills and knowledge gained as a software developer. Looking to use my detail-oriented and focused personality while working on projects or tasks in my position.

Languages & Tools

Tcl (Experienced)	Scala (Intermediate)	Git (Experienced)
C/C++ (Proficient)	TLA (Intermediate)	Unix (Proficient)
Java (Competent)	MATLAB (Intermediate)	Unity (Intermediate)
Python (Competent)	OpenGL (Intermediate)	Blender (Intermediate)

//=====// Experience

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UNH Interoperability Lab - Durham, NH

4 Years

Intern Software Developer

- Implemented 50+ testing scenarios and topologies using a variety of networking devices and systems. This was done by updating firmware, capturing packets via Wireshark, low-level configuration, and reading documentation.
- Contributed to the maintenance of the Java-based tool INTACT™ by refactoring code, reducing redundancy in modules, debugging and fixing user-reported issues, documenting internal APIs, and adding new features to the software.
- Created 100+ Python and Tcl scripts for testing IPv6 and IPsec protocols running on INTACT™.
- Added improved code to scripts that reduced command duplication by 67% and simplified complex operations for Tcl scripting into a single command.
- Utilized Atlassian software: Jira, Confluence, Bitbucket, and Bamboo, for Agile team coordination. Reviewed 200+ code changes.

Albacore Museum - Portsmouth, NH

1 Year

VR (Virtual Reality) Developer

- As a team of 4 students, in collaboration with UNH and the USS Albacore Museum, designed and developed a VR application to increase museum accessibility to 90% for people with disabilities.
- Created physically based, detailed materials designed to increase immersion within the virtual world.
- Presented the museum with an in-beta prototype including 3 submarine rooms, interactive objects, periscope functionality, reduced motion-sickness movement, Boid AI, and reactive controls.
- Leveraged Blender and Unity LOD (Level of Detail) tools to reduce model polygon count by 50-75%.
- Utilized Android Studio and frame profiling tools to debug app runtime issues within the Quest 2 headset.

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