

Robert Morelli

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Education	B.S. Computer Science (in progress) • University of Utah A.S. Computer Science (incomplete) • SLCC	2022 – 2027 expected 2019 – 2022 transferred
Technology	Expert Zig, Dart, JS, WASM (WAT), CSS, SVG, GitHub Actions, MIPS asm Proficient Angular, C, C#, Cordova, Flutter, HTML, Java, Python, TS, Typst Familiar Bash, C++, CICD, CircleCi, Metal, MongoDB, OpenCL, PHP, Ruby, Rust, Swift	
Experience	Research Assistant • University of Utah Benchmarking gradual typing in Meta's Cinder variant of python Teaching Assistant • University of Utah Leading labs, grading, assisting students for COMP 1020 Software Engineer/Dev ops • Stutor Inc. Architected CICD pipeline Optimized DB indexes, reducing query times by up to 8x Web Developer/Dev Ops • Jerran Software Solutions Overhauled LDS MTC QA/CICD workflow, substantially reducing regression burden Rewrote Embark app startup to reduce first time loading by up to 50% Research Assistant Intern • Earl Keefe PhD Visualizations for anthropology research Web Dev. Intern • Frelii Web scraping SNPedia for AI training	Nov 2025 – present Sep 2025 – present Sep 2023 – Apr 2024 Apr 2022 – Sep 2023 Nov 2020 – Jun 2021 May 2019 – Sep 2019
Projects	Optimized bead/gravity sort • zig Bead sort done via popcount intrinsics and bit matrix transpositions. Only for 32 u6s Tiny nkey rollover tester OS • zig Ported as OS class assignment to zig and then added keyboard input and vga output Fast approximate change of base • python Novel algorithm for printing numbers larger than 10^{10^5} efficiently Automated resume • typst Automated typst resume deployed to website Held-karp • zig Well optimized bitset based Held-karp TSP algorithm Spreadsheet formulas to DLL compiler • c A spreadsheet which compiles formulas to a DLL which can be used in DOTNET projects Color alchemy • qt c++ A game for learning color mixing CSS grid examples • css html Examples of common design patterns implemented with css grid as a good reference Randomized Pacman game • java Pacman game using some algorithms from my 2420 class: A*, DFS, BFS, Union find	2026 2025 2025 2025 2025 2025 2025 2024 2024 2021
Misc	Added code field to instruction decoder • MARS IDE #12 Ranked team at Rocky Mountain Regional Contest • ICPC Jane Street Leaderboard Number Cross 5 Sum One, Somewhere	2025 2025 May 2025 Apr 2025