

Robert Morelli

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Education	B.S. Computer Science ▪ University of Utah	expected 2027
Skills	Proficient Dart, JS, CSS, SVG, HTML, Java, Python, TS, Typst, GitHub Actions, Zig	
	Familiar Angular, Bash, C, C#, Cordova, C++, CISC, CircleCi, Flutter, Metal, MongoDB, MIPS asm, OpenCL, PHP, Ruby, Rust, Swift, WASM (WAT)	
Experience	Research Assistant ▪ University of Utah Benchmarking gradual typing in Meta's Cinder variant of python	2025–
	Teaching Assistant ▪ University of Utah Leading labs, grading, assisting students for COMP 1020	2025–
	Software Engineer/Dev ops ▪ Stutor Inc. Architected automation pipeline Optimized DB indexes, reducing query times by up to 8x	2023–2024
	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%	2022–2023
	Research Assistant Intern ▪ Earl Keefe PhD Visualizations for anthropology research	2020–2021
	Web Dev. Intern ▪ Frelia Web scraping SNPedia for AI training	2019
Projects	Optimized bead/gravity sort ▪ zig ↗ Bead sort via popcount intrinsics and bit matrix transpositions for 32 u5s	2026
	Tiny nkey rollover tester OS ▪ zig ↗ Ported as OS class assignment to zig, demo of keyboard in and vga out	2025
	Fast approximate change of base ▪ python ↗ Novel algorithm for printing numbers larger than 10^{10^5} efficiently	2025
	Automated resume ▪ typst ↗ Automated typst resume deployed to website	2025
	Held-karp ▪ zig ↗ Well optimized Held-karp TSP algorithm using bitsets and Gosper's hack	2025
	Spreadsheet formulas to DLL compiler ▪ c ↗ Compiles formulas in a spreadsheet into a DLL	2025
	Color alchemy ▪ qt c++ ↗ Beautiful game for learning color mixing, properly using oklab color space	2024
	CSS grid examples ▪ css html ↗ Reference for common design patterns that should be implemented with css grid	2024
	Randomized Pacman game ▪ java ↗ Pacman game using some algorithms from my 2420 class: A*, DFS, BFS, Union find	2021
Misc	Contributed code field to instruction decoding ▪ MARS IDE ↗	2025
	#12 Ranked team at Rocky Mountain Regional Contest ▪ ICPC ↗	2025
	Jane Street Leaderboard Number Cross 5 ↗ Sum One, Somewhere ↗	