Robert Morelli

github.com/robertmorelli ↗
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Education

B.S. Computer Science ▪ University of Utah   *expected may 2027*

Skills

Proficient

Dart, JS, CSS, SVG, HTML, Java, Python, TS, Typst, GitHub Actions, Zig

Familiar

Angular, Bash, C, C#, Cordova, C++, CI/CD, CircleCI, Flutter, MongoDB, Rust, Swift

Experience

Research Assistant ▪ University of Utah   *current*

Benchmarking gradual typing in Meta's Cinder variant of Python

Teaching Assistant ▪ University of Utah   *current*

Software Engineer/DevOps ▪ Stutor Inc.

Architected automation pipeline

Optimized DB indexes, reducing query times by up to 8x

Web Developer/DevOps ▪ 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/University of Utah

Web Development Intern ▪ Frelii

Projects

Spreadsheet DLL compiler ▪ c# ↗

Compiles formulas in a spreadsheet into a DLL

Color alchemy ▪ qt c++ ↗

Beautiful game for learning color mixing, properly using oklab color space

English language trie ▪ zig wasm ↗

Dictionary of 236k words embedded into a 4 MB wasm trie for easy autocomplete

Web VS Code typst extension ▪ rust ts ↗

Lambda calculus beta reduction visualizer ▪ js html ↗

Matrix transpose bead/gravity sort ▪ zig ↗

Tiny nkey rollover tester kernel ▪ zig ↗

Really (really) big number printer ▪ python ↗

Automated resume ▪ typst ↗

Held-Karp ▪ zig ↗

CSS grid reference sheet ▪ css html ↗

Randomized Pacman game ▪ java ↗

Svg Animator ▪ html js css ↗

Misc

Event Coordinator ▪ Technical Coding Club   *2026*

Contributed code field to instruction decoding ▪ MARS IDE ↗

#12 Ranked team at Rocky Mountain Regional Contest ▪ ICPC ↗   *2025*

Jane Street Leaderboard

Number Cross 5 ↗

Sum One, Somewhere ↗