

Joshua Fried
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[Josh-Fried.github.io](https://github.com/Josh-Fried)

Experience

- Investment Property Managers, Great Falls, MT2025-2026
Software Engineer & Website Manager
 - Engineered, deployed, and maintained multiple custom web applications and property sites, managed full-lifecycle CRM infrastructure, and acted as the primary technical lead across internal IT operations.
- Rocky Mountain Hardscapes, Great Falls, MT2023-2025
Website Manager
 - Revitalized an outdated website through strategic collaboration, implementing a systematic plan for modernization.
- Outlier AI, Remote2024
Software Engineer - AI Consultant
 - Used reinforcement learning to program large language models to use implicit code execution.

Projects

- Home Maintenance TrackerDecember 2025
 - Architected and launched a comprehensive Java-based property management system, leveraging Spring Boot and PostgreSQL to centralize warranty data, automate task scheduling, and provide secure calendar synchronization.
- Automated POS Fulfillment Webhook ServiceJuly 2026
 - Engineered a webhook service leveraging the Lightspeed API to filter daily sales payloads and automate backstock picking lists, eliminating manual sorting and inventory errors.
- Catscript CompilerMay 2023
 - Developed a Catscript Compiler in Java as a key project, showcasing expertise in language compilation, Java Virtual Machine (JVM) internals, and Java bytecode generation.
 - Implemented tokenization, parsing, evaluation, and bytecode to successfully translate Catscript into Java bytecode.
- Triathlon Apparel AppApril 2023
 - Created a mobile app using React Native that enhances the triathlon experience through gamification, challenges, point systems, and rewards.
 - Took an active role in the team's learning process, rapidly acquiring expertise in React Native technology to contribute effectively to the app's development.
- Sudoku SolverSeptember 2023
 - Developed a high-performance Sudoku solver in Java, implementing a variety of strategies to solve any Sudoku puzzle in under a second.

Technical Skills

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| <ul style="list-style-type: none">PythonJavaSQLJavascript | <ul style="list-style-type: none">HTML/CSSGitREST APIsSpring Boot | <ul style="list-style-type: none">LinuxReact & React NativeMicrosoft AzureMicrosoft 365 |
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Education

- Grand Canyon University, Phoenix, AZ2024 -2025
Master of Science - Software Development - GPA 4.0
- Montana State University, Bozeman, MT2019 - 2023
Bachelor of Science - Computer Science Professional - GPA 3.79