

Morgan Thomas

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Software Engineer with Leading-Edge Applied Math

Versatile problem-solver employing best practices in analysis, engineering, algorithms, and code.

- Core Competencies** Delivering correct software based on solid engineering
Clear technical communication tuned to audience and context
Sound and innovative mathematical analysis of real-world problems
- Selected Skills** **Programming languages**
Haskell C# JavaScript dabbled in many
Software engineering
Agile Web frontends and APIs Linux Windows Git Automated testing/TDD
Computer science
Data structures Complexity analysis (big- O , etc.) Parsing Formal languages
Applied math
Logic Statistics and probability Graph theory
Calculus Linear algebra Numerical optimization
Communication
Documentation/technical writing Teaching Self-teaching Good listener
- Current Project** **FreeCat** <https://github.com/morganthomas/freecat>
A programming language descending from Haskell and Idris, founded on new ideas in type theory.
- Professional Experience** **Developer. IHS Markit. Oct. 2015 – present.**
Create and maintain financial research software for some of world's largest investment management companies.
- JavaScript Instructor. Saisoft, Inc. (contractor for).**
Nov. 2015 – Dec. 2015.
Trained IT professionals in JavaScript using self-developed courseware.
- Education** **University of Connecticut. Philosophy, MA. 2013 – 2015.**
Research resulted in three publications in top logic journals.
Cumulative GPA 4.1.
- Arizona State University. Psychology, BS. 2009 – 2013.**
Minors, Mathematics and Philosophy. Thesis on philosophy of computation.
Cumulative GPA 3.83.
- Academic Honors** Top scorer, Putnam Mathematical Competition at Arizona State University. 2013.
National Merit Scholar. 2009.