

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
JavaScript technologies
node React Angular Vue ES6+ Webpack Express Swagger
Applied math
Logic Statistics and probability Graph theory
Calculus Linear algebra Numerical optimization
Communication
Documentation/technical writing Teaching Self-teaching Good listener

Professional Experience **Developer. IHS Markit. Oct. 2015 – present.**
Create and maintain Web based 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.

Current Project **FreeCat** <https://github.com/morganthomas/freecat>
A programming language descending from Haskell and Idris, founded on new ideas in type theory. Developing in Haskell.

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.