Morgan Thomas

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GitHub: https://github.com/morganthomas

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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.