

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/paradigms**
C# .NET JavaScript C Dart Lisp OO Functional programming
Software engineering
Web dev. Agile Linux Windows Git Subversion SW architecture
Design patterns Automated testing/TDD
Computer science
Data structures Computational complexity Parsing Formal language theory
Applied math
Statistics and probability Data visualization Combinatorics Graph theory
Calculus Linear algebra Numerical optimization Abstract algebra Topology
Communication
Documentation/technical writing Teaching Self-teaching Good listener

Professional Experience **Developer. IHS Markit. Oct. 2015 – present.**
Maintain integrity of public financial research tools for one of world's largest investment firms, by managing releases and performing maintenance dev.
Independently design and develop in-house Web page performance analysis tool, incl. data collection, storage/retrieval, and analysis.

**JavaScript Instructor. Saisoft, Inc. (contractor for).
Nov. 2015 – Dec. 2015.**
Trained IT professionals in JavaScript using self-developed courseware.

Independent R&D **Yoga. May 2015 – present.**
<https://github.com/morganthomas/yoga>
Developed novel, robust and flexible mathematical algorithm for UI layout which forms basis of UI rendering engine under active development. Aims to be a better, backwards compatible alternative to HTML/CSS for Web dev.

Education **RefactorU. Full-stack JS bootcamp graduate. Jun. 2015 – Aug. 2015.**

University of Connecticut. Philosophy, MA. 2013 – 2015.
Math and philosophy research resulted in three publications in top journals. Obtained strong general education in higher math. 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.