

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
Capable of self-management and independent learning
- 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 Complexity analysis (big- O , etc.) Parsing Formal languages
Applied math
Statistics and probability Data visualization Combinatorics Graph theory
Calculus Linear algebra Numerical optimization Abstract algebra
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. 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.