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. 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.