

**Morgan Thomas**

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## Mathematical Software Engineer

I use software engineering and mathematics to solve challenging problems.

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**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** Haskell C# C JavaScript Dart Lisp OO Functional programming  
Statistical analysis Numerical optimization Web dev. Data visualization  
Design patterns Agile Linux Windows Git Subversion .NET

**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. Planned 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.**  
Interdisciplinary math and philosophy research resulted in three publications in top journals in my field. 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.