Morgan Thomas

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Software Engineer and Mathematician

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# JavaScript C Haskell 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.
Reliably keep Capital Group from going off the rails as maintenance dev. Wrote a tool for capturing, analyzing and visualizing client-side performance data. Took responsibility for migrating ODA Dashboard and helped fix a bunch of gnarly bugs; worked effectively with no team lead to report to.

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
New approach to developing Web pages without using HTML and CSS. Uses novel layout algorithm describing page layout problem as one continuous numerical optimization problem. Promises to produce fast, high quality page layout with greatly expanded design possibilities.

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.