

# Tyler MARKLYN

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## EDUCATION

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MAY 2015 **Harvey Mudd College**, Claremont CA  
Joint Major in COMPUTER SCIENCE AND MATH, Concentration in LINGUISTICS  
Dean's List, Final GPA: 3.62/4.00  
JUNE 2011 **The Northwest School**, Seattle, WA | Final GPA: 3.96/4.00

## WORK EXPERIENCE

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AUG 2015-PRESENT	<b>Software Developer &amp; Analyst at INTENTIONAL SOFTWARE</b> Work primarily on implementation of an incremental computation based layout engine. The engine allows application developers on the Intentional Programming platform to use our Layout DSL to create performant applications that can automatically performantly update visuals. Worked on creating the API to allow application developers to extend the Layout Engine with their own custom visuals and animations, while still automatically providing incremental computation.
MAY 2014-AUG 2014	<b>Software Engineering Intern at INTENTIONAL SOFTWARE</b> Worked on a number of projects including: creation of a color picker, modification of the ticket system, and leading a team of interns on a massive widget refactor.
SEP 2012-MAY 2015	<b>Computer Science Grader/Tutor at HARVEY MUDD COLLEGE</b> Grader/Tutor for a number of courses, including: Data Structures and Program Development, Computer Systems, Computability and Logic, and Programming Languages.
JAN 2013-MAY 2014	<b>Student Email List Moderator at HARVEY MUDD COLLEGE</b> Make sure that the antiquated student mailing list system at Harvey Mudd continues to function. Read, edit and forward emails from the command line.
JAN 2013-MAY 2013	<b>Mathematics Head Grader at HARVEY MUDD COLLEGE</b> Head grader for Introduction to Linear Algebra and Introduction to Differential Equations.

## COMPUTER SKILLS

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Basic Knowledge:	ERLANG, SCHEME, UNIX, Mathematica, textsc, HASKELL, CUDA
Intermediate Knowledge:	C#, C++, PYTHON, MATLAB, JAVA, Excel, $\text{\LaTeX}$
Practice in:	Incremental Computation, Data Structures, Distributed Systems, Programming Languages, Functional Design, Object Oriented Design, Computer Systems

## LANGUAGES

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ENGLISH: Fluent	ITALIAN: Fluent	SPANISH: Fully able to converse	FRENCH: Basic Knowledge
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## INTERESTS AND ACTIVITIES

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Incremental Computation, Data Visualization, Data Structures, Distributed Algorithms, Domain Specific Languages, Programming Language Creation

Video Games, Linguistics of Natural Languages, and their relation to programming languages

Competitive Magic: the Gathering, Baseball, Football, Juggling, Any Seattle-based sports team