

# 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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MAY 2017-PRESENT	<b>Software Engineer 2 at MICROSOFT</b> Continue work on the Intentional Layout Engine after Microsoft acquisition. Special focus on improving cross-platform performance of the layout engine as we ship Microsoft Whiteboard for Surface Hub, Desktop, and Mobile. Expand the Layout API to better support multithreaded and deferred work across rendering frames.
AUG 2015-MAY 2017	<b>Software Developer &amp; Analyst at INTENTIONAL SOFTWARE</b> Worked 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 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, $\LaTeX$
Practice in:	Incremental Computation, Distributed Systems, Programming Languages, Functional Design, Data Structure & 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  
Video Games, Linguistics of Natural Languages and their relation to programming languages, Competitive Magic: the Gathering, Baseball, Football, Juggling, Any Seattle-based sports team