

# **JOSHUA C. MERMELSTEIN**

Tufts University

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## **ACADEMIC EXPERIENCE**

### **TUFTS UNIVERSITY**

2011-2015

Major in Computer Science and Mathematics

Dean's List all semesters

3.83 GPA

Completed courses include Data Structures, Discrete Math, Machine Structure & Assembly Programming, Cryptography, Algorithms, Visualization, Programming Languages, Theory of Computation, Concurrent Programming, Machine Learning, Compilers, Databases, Abstract Algebra I & II and Real Analysis I & II.

## **WORK EXPERIENCE**

### **GOOGLE**

July 2015 - Present

Software developer on Play-Search-Infrastructure team. Worked on top charts for Google Play.

### **AMAZON.COM**

Summer 2014

Intern with the Similarities team. Worked on improving the quality of suggestions in the Frequently Bought Together widget. Designed, ran (in The UK and Japan) and analyzed and A/B test.

### **TUFTS UNIVERSITY COMPUTER SCIENCE DEPARTMENT**

Summer 2013

Research assistant in computational geometry. Conducted literature review in graph coloring and graph algorithms. Collaboratively wrote paper on convex subdivision which has been merged into a larger paper with expected publication in 2015.

### **TUFTS UNIVERSITY COMPUTER SCIENCE DEPARTMENT**

Summer 2012

Research assistant on planar DFA unminimization project. Wrote C++ code to implement a proposed nondeterministic algorithm. Conducted literature review in graph theory and theory of computation working towards a mathematical proof of the complexity of DFA unminimization.

## **TECHNICAL SKILLS**

### **LANGUAGES**

4 years experience in C/C++. Two years experience in Python. One year experience in Java. Less than one year experience with Scheme and ML. Comfortable writing short shell scripts.

## **LEADERSHIP EXPERIENCE**

### **JUMBO JUGGLERS – Tufts University Juggling Club**

Vice President

September 2011-May 2014

President

September 2014-May 2015