

## Bruce Spang

Software Engineer - Fastly  
CS Major - UMass Amherst

[bruce@brucespang.com](mailto:bruce@brucespang.com)  
<http://brucespang.com>  
<https://github.com/brucespang>

### Experienced in:

C	Distributed Systems
Assembly	Bash
Ruby	Rails
Java	SQL
Javascript	
Python	
Scala	

### Work Experience:

Fastly - Software Engineer - September 2013-Present

Fastly - Intern - May 2013-August 2013

- x86 assembly generating ruby script
- Eventually consistent, globally distributed, reliable message broadcast system

[Dribbble](#) - November 2010–August 2012

- Colors Search: <http://dribbble.com/colors/>
  - Wrote a tool to search over 800,000 images by their colors
  - Invented, implemented, and optimized an algorithm to search by color.
  - Gave a presentation on it at the inaugural Boston Dribbble Meetup
    - Slides: <http://brucespang.com/colors%20presentation/slides.pdf>
- OAuth 2 API
- Recommendation engines
- Helping with scaling to approx. 20 million unique views per month.
- Upgraded to Rails 3 - found and fixed bugs in Rails core.
- Measured statistics related to site engagement.

Boston Web Studio - Intern - Summer 2010

Hey, I Got You These! - Software Engineer - Winter 2009–2010

## **Relevant Education**

### High School

- AP Statistics
- Independent Study in CS

### Completed Courses

- Multivariable Calculus
- Linear Algebra
- Data Structures
  - Received Course Citation for outstanding performance, top in class of 132, grade of 4.55 on a 4.0 scale.
- Functional Programming Principles in Scala
- Graduate Seminar on Programming Languages & Systems
- Probability in CS
- Intro to Systems
- Discrete Math

### Current Courses:

- Grad Systems
- Operating Systems
- AI
- Natural Language Processing
- Algorithms

## **Honors**

- National Merit Scholar
- Eagle Scout