

# Joshua Branchaud

loves to write code, photograph things, and shoot pool

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## Education

Bachelor of Science in Computer Science, University of Nebraska-Lincoln, May 2011.

*Minors:* Mathematics and Spanish

Master of Science in Computer Science, University of Nebraska-Lincoln, In progress.

## Experience

### **Full-time Volunteer, Young Adults in Global Mission of the ELCA**

*Grand Bourg, Buenos Aires, Argentina, August 2013–July 2014*

Accompanied the community of Congregation San Lucas, including administrative duties, youth and children's activities, and technology training and consulting.

Facilitated skill-building workshops and taught computer skills at a vocational center for differently-abled adults.

Partnered with a neighborhood school to provide after-school English language instruction.

### **Graduate Research Assistant, UNL Department of Computer Science, advised by Dr. Anita Sarma**

*Lincoln, Nebraska, August 2011–August 2013*

Developed an Impact Analysis technique to be used for real-time workspace awareness.

Coordinated research efforts among four geographically-distributed professional researchers, combining the areas of Program Analysis and Workspace Awareness.

Published two research papers in top-tier software engineering conferences.

Updated and refactored Palantir, a workspace awareness tool implemented in Java as an Eclipse plugin.

### **Student Intern, Formal Methods Group, NASA Langley, advised by Dr. Suzette Person**

*Hampton, Virginia, May 2012–August 2012*

Designed and implemented a framework that brings program analysis to a variety of client applications.

Researched a strategy for efficiently analyzing heap allocated memory during symbolic execution of Java programs.

### **Undergraduate Research Assistant, UNL Department of Computer Science, advised by Dr. Anita Sarma**

*Lincoln, Nebraska, January 2010–August 2011*

Maintained and updated Palantir, a workspace awareness tool implemented in Java as an Eclipse plugin.

Researched topics related to my advisor's PhD area to prepare for graduate work.

## Skills

Experience developing with Java, JavaScript, CSS, HTML, Ruby, Ruby on Rails, Objective-C (for iOS Development), Python, Bash scripts, Git, and Mercurial.

Experience in Adobe Photoshop, Illustrator, and InDesign.

Proficiency in Spanish.

## Miscellaneous

Open-source maintainer, captionss, splitting-atoms, etc., 2011–present.

Co-founder and organizer, Lincoln’s Beer and Code meetup, 2012–present.

President, Beta Sigma Psi Fraternity, 2009–2011.

Participant, ACM Regional Programming Competition, 2010.

Last updated: May 29, 2014