

# Joshua Branchaud

loves to write code, shoot photos, 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

### **Software Engineer, Powderhook**

*Remote and Lincoln, Nebraska, August 2014–December 2014*

- Designed and implemented Rails-based backend application infrastructure and API services.
- Built user interfaces that provided interaction between the client application and backend services.
- Improved the quality and coverage of tests across the Ruby codebase.
- Layed the foundation for the testing of the JavaScript codebase.

### **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.

## Skills

Major experience developing with Ruby, Rails, JavaScript, CSS, HTML, and Java.

Some experience developing with Rust, Objective-C (for iOS), Python, and Android.

Experience managing software projects with GitHub, git, and mercurial.

Proficiency in Spanish.

## Miscellaneous

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

Open-source contributor, Rust, 2014–present.

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

Last updated: January 19, 2015