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: December 13, 2014