

Joshua Branchaud

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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

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