

Mario Barrenechea

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OBJECTIVE	I am a motivated, hard working graduate student pursuing software engineering research and development opportunities that will challenge me to become a knowledgeable, experienced professional in the academic and industrial market.
EDUCATION	<ul style="list-style-type: none">• 5th year Ph.D. student in computer science specializing in software engineering and crisis informatics and studying with Ken Anderson at the University of Colorado at Boulder.• Bachelors of Science (BS) in computer science from the University of Massachusetts Amherst.
PROFESSIONAL EXPERIENCE	<p>EPIC (Empowering the Public with Information in Crisis) - Graduate Researcher and Developer (Fall 2011 - Current)</p> <ul style="list-style-type: none">• Studying the socio-technical phenomena of disaster victims using software during and after mass emergency events. My thesis explores the socio-architectural design of software systems, uses empirical methods to evaluate their architectures, and enables their users to solve important societal problems during disaster events. <p>Onsystex - Software Engineering Intern (Summer 2013-2015)</p> <ul style="list-style-type: none">• Developed interfaces for connecting and retrieving data from the OASYS proprietary database.• Leading code re-organization efforts for OASYS in Linux and managing business code projects in GitHub. <p>Fidelity Investments - Software Engineering Intern (Summer 2010)</p> <ul style="list-style-type: none">• Performed testing efforts to support email productivity across across a large-scale user base of enterprise devices within the company. <p>BAE Systems - Sensor Systems Engineering Intern (Summer 2009)</p> <ul style="list-style-type: none">• Brainstormed, designed, and implemented a simulation for viewing infrared modes housed within Raptor class aircraft. <p>Vertica Systems - Software Engineering Intern (Summer 2008)</p> <ul style="list-style-type: none">• Designed and developed a performance profiling tool for visualizing bottleneck queries with the Vertica database system.
ACHIEVEMENTS	<ul style="list-style-type: none">• Awarded National Science Foundation (NSF) Graduate Research Fellowship (GRF) Honorable Mention for 2012 based on three essays, recommendation letters, and research platform.• Managed the UMass Amherst ACM Student Chapter as Vice President (2009-2010) and President (2010-2011) and hosted frequent corporate events to help link students with recruiters.• Awarded the STEM Scholar Internship Match Scholarship in 2008 for my professional contributions to the engineering team at Vertica Systems (now acquired by HP).
TECHNICAL	<ul style="list-style-type: none">• SE processes {Agile, Rapid Prototyping}• Design processes {Personas, Think-alouds, Cognitive Walkthroughs}• Management: Small (2-3) Teams.• Development Editors: {Sublime, Eclipse, Emacs, Netbeans, Visual Studio}• Databases: {Cassandra, PostgreSQL, MongoDB, Solr}• Web Frameworks: {Ruby on Rails, Django }• Dev Ops:{Vagrant, Puppet}• Programming Languages: {Ruby, Python, Java, C/C++}, Web {HTML/CSS/JS}• Version Control: {Git, SVN}