

Daniel Joseph Gempesaw

360 Pharr Rd NE Apt. 606
Atlanta, GA 30305

gempesaw@gmail.com
(302) 754-1231

Experience

Sharecare, Inc.

QA Architect	Aug 2012 - Present
Build Manager	Oct 2011 - Aug 2012
QA Engineer I	Aug 2011 - Oct 2011

Honeydew An in-house analog to Cucumber, Honeydew was a full-featured browser automation suite. It accepts feature files and executes cross-browser tests with Selenium. The backend was written in Perl and initially interfaced with browsers via Selenium RC. One of my first tasks was to rewrite the whole application to use Selenium Webdriver. I worked closely with Selenium::Remote::Driver, the Perl bindings for the Selenium Webdriver project, and even contributed a small fix to the CPAN module.

Honeydew includes a PHP/JavaScript front end that enabled any employee to write feature files in a DSL and test their functionality across all browsers. With jQuery I added autosuggests, instant feature searching, and per-user default settings to improve the user interface.

Monitoring I extended Honeydew with monitoring functionality that ran critical browser tests against our production websites to ensure 24/7 functionality. The suite included email reports on failures and a UI for all members of the QA team to use, so everyone was able to assert critical functionality in their respective projects.

Squash I created a site crawler written in entirely in Perl that checks headers on URLs and all resources embedded within each page. Squash scanned three production sites and over 1.5 million pages each night, producing daily email reports with faulty static assets and storing load time and historical information in a database.

REST API In order to test REST APIs, I wrote a test suite using SPORE that would run validation tests on the REST APIs that our developers were creating. I also created a simple UI that enabled anyone to run the tests for each build.

Georgia Institute of Technology

Graduate Research Assistant 2008 - 2011

- Co-authored & refereed a conference paper: "A Review of Wavelet-Based Algorithms for Applications in Reduced Order Modeling of Thermal Management Systems."
- Presented at the NATO RTO-AVT-178 Specialists' Meeting on System Level Thermal Management for Enhanced Platform Efficiency: Bucharest, Romania.
- Conducted research on advanced strategies for data center cooling simulations

Education

Georgia Institute of Technology 2008 - 2011

- M. S. in Mechanical Engineering
- Thesis: "A multi-resolution discontinuous Galerkin method for rapid simulation of thermal systems"

University of Delaware 2004 - 2008

- Honors Bachelor of Mechanical Engineering, Magna Cum Laude
- Honors Bachelor of Science in Mathematics, Magna Cum Laude
- Minor in Physics

Skills

Programming Languages: Perl, elisp, PHP, L^AT_EX, bash, Javascript (jQuery), HTML5+CSS3, MySQL

Software, etc: emacs, git (magit), JIRA, Selenium Webdriver, Selenium RC, Sauce Labs, github, CPAN, Agile & scrum methodology,

Languages: Limited comprehension in Spanish, Mandarin, and Tagalog