Daniel Joseph Gempesaw

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Experience

Sharecare, Inc.

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

Honeydew   (Perl, PHP/jQuery/DHTMLX, Saucelabs, Selenium Webdriver)

- Grew this simple in-house Cucumber analog into a full fledged cross-browser automation suite
- Rewrote the backend to update the project from Selenium RC to Selenium Webdriver
- Interprets DSL feature files and executes them locally or on Saucelabs' entire browser suite, recording the video with subtitles of each step execution
- Enhanced front end, adding autosuggests, instant feature file searching, per-user default settings, and general usability improvements

Monitoring   (PHP, cron)

- Built a cross-browser functionality monitoring system based on Selenium Webdriver
- Enabled other QA members to schedule Honeydew tests to be run against any browser matrix
- Email alerting on critical functionality test failures and historical reporting

Squash   (Perl, MySQL)

- Wrote a site crawler checks headers on URLs and all resources embedded within each page of an input sitemap.xml
- Tool was used to scan three production websites, over 1.5 million pages, each night
- Produced daily email reports with error static assets and URLs
- Stored all data in a DB for trend analysis (comparing builds, or the performance of a single page over time)

REST API   (Perl, PHP/jQuery, MongoDB)

- Built a test suite with SPORE to test REST APIs created by our developers
- Created an UI where anyone could run the tests for their project

Manual QA Testing   (JIRA, drop.lr, Jing, KeyCastr)

- Routinely performed manual browser tests in all major browsers
- Tested stories and documented bugs in JIRA with extensive screenshot and video evidence
- Frequently debugged complicated issues alongside front-end and back-end developers

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 Phyiscs

Skills

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

Software, etc: emacs, git (magit), JIRA, Selenium Webdriver, Selenium RC, Sauce Labs, github, CPAN, Agile, Scrum, MongoDB, RIAK

Personal Projects: fetchmacs, dotemacs

Languages: Limited comprehension in Spanish, Mandarin, and Tagalog