

RUSSELL “RUSTY” GELDMACHER

SOFTWARE ENGINEER

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www.github.com/rustygeldmacher
 (508) 353-3962

Skills

Current

- Web architecture
- Software design
- Automated testing
- Continuous integration
- Agile / Scrum
- DevOps / System administration
- Ruby / Ruby on Rails
- PostgreSQL
- Redis
- Puppet
- AWS / Cloud architecture
- Git
- SQL
- Apache / Passenger
- JavaScript / jQuery
- CSS / HTML

Skills

Experience

- C#
- C
- Assembly (ARM)
- Java
- MongoDB
- MySQL
- Linux kernel
- Embedded systems
- ASP.NET
- Subversion
- IIS
- MS SQL Server

Career

Sermo WorldOne — Boston, MA

Stack: Ruby, Rails, PostgreSQL, RSpec, Redis, Resque, AWS, Puppet, Git, Nagios

Principal Engineer, June 2013 to Present

- In charge of a five member scrum team responsible for all user-facing features of Sermo. Work with product owner to organize backlog and lead story grooming sessions. Keep team unblocked and on track for sprint commitments, which we consistently meet.
- Lead various organizational and process improvements such as improving team velocity and predictability by adopting a better story writing and grooming process. Also lead the implementation and adoption of team-wide style guides.
- Code base cleanup, maintenance, and general architectural improvements.

Senior Engineer, November 2011 to June 2013

- Together with another developer, moved entire infrastructure for Sermo from physical co-located datacenter to AWS cloud. Built extensive automation for fleet and server provisioning using Fog, Puppet, Nagios, Monit and related technologies.
- Modernized the multi-application code base with improvements such as replacing the home grown asset server with the Rails asset pipeline, updating from Rails 2.3.x to Rails 3.2.x, and replacing the legacy JBoss-based ESB with a Resque-based broadcast queue.
- Implementing other site features such as survey provisioning and invitation engine, third party news feed integration, integrating with the WorldOne balance and payments service, and more.

Velir Studios — Somerville, MA

Stack: .NET, C#, ASP.NET, JavaScript, CSS, HTML, NUnit, NHibernate, Spring.NET, MS SQL Server, IIS, Subversion

- As employee #7, helped grow the company to a 50-person, multi-million dollar consultancy firm with dozens of household-name clients. Gained experience in all aspects of the project lifecycle from the initial pitch right up through the maintenance contract.

Principal Developer, October 2009 to November 2011

- Identified as one of three leading developers in the company to receive the title of Principal. In addition to general senior-level responsibilities, the responsibilities of principal include architecting and overseeing the builds on new projects, starting from initial estimation through requirements gathering and on into development. Some of the project I've architected include:
 - The Dartmouth Atlas of Healthcare - <http://www.dartmouthatlas.org>
 - Lucile Packard Foundation's KidsData - <http://www.kidsdata.org>
 - The Commonwealth Fund's State Scorecard - <http://datacenter.commonwealthfund.org>
- Helped build a best practices culture in the engineering group. Instituted company-wide adoption of source control, automated testing, a common reusable code library, standardized build system, standard project

directory structures, and more.

- Mentored junior developers in C# and general programming best practices. Helped to make integration into the company go as smoothly as possible.
- Defined the Velir developer interview process and helped refine the peer review process. Using this process we were able to grow the developer base of the company while maintaining a consistently high level of talent.

Senior Developer, November 2006 to October 2009

- Lead architect and developer of Velir Datacenter(<http://www.velir.com/expertise/datacenter.shtm>), a data publishing framework and tool suite that by the time I left powered over 15 high-volume data visualization websites.
 - Built in ASP.NET and C#, Datacenter allows non-technical users to upload and manage large data sets while allowing programmers to quickly go from blank slate to working site in minimal time.
 - Built from the ground up with performance in mind, Datacenter can handle data sets upwards of 50 million data points without any noticeable degradation in performance. Optimizations from the database layer through the API layer allow for fast data import, retrieval, and visualization.
 - Backed by nearly 2500 NUnit-based tests, the Datacenter code base has stood up since late 2007, though several major refactorings, with regressions being extremely rare.
- Lead teams on projects from planning and concept, through development and into production. Lead the development effort on dozens on web sites with teams from anywhere between 2 to 6 people. Some of these include:
 - Population Reference Bureau's DataFinder - <http://www.prb.org/datafinder.aspx>
 - Harvard School of Public Health's Diveristy Data - <http://www.diversitydata.org>
 - The Meridian Institute - <http://www.merid.org>
 - Kaiser Family Foundation's Global Health Facts - <http://www.globalhealthfacts.org>

Intel Corporation — Hudson, MA

Embedded Linux Software Engineer, June 2003 to November 2006

- One of the top embedded Linux and PXA processor experts in areas including boot-up, drivers, optimization and system architecture.
- Development work included doing Linux ports to brand new processors and processor steppings. First to enable new architecture features such as DDR SDRAM and L2 cache.
- Created the original implementation of suspend/resume power management facilities in the Linux kernel for the PXA architecture. That work was accepted into the PXA architecture tree of the mainline Linux kernel.
- Lead role in the team producing and optimizing the operating system for the Motorola A780, one of the first Linux-based smart-phones to ever hit the market.

Worcester Polytechnic Institute — Worcester, MA

Teaching Assistant, August 2001 to May 2002

Intel Corporation — Hudson, MA

Summer Intern, Summers 2000 & 2001

Education Worcester Polytechnic Institute — Worcester, MA

Master of Science - Computer Science

- Graduated May 2003
- Cumulative GPA: 3.7

Worcester Polytechnic Institute — Worcester, MA

Bachelor of Science - Electrical Engineering (Concentration in Computer Engineering)

- Graduated May 2001
- In-major GPA: 4.0, Cumulative GPA: 3.7
- Tau Beta Pi National Engineering Honor Society
- Eta Kappa Nu National Electrical Engineering Honor Society

Other

Avid hiker and backpacker

- Completed the AMC New Hampshire 4,000 footers list in July 2010

Find me on:

- [Stack Overflow](http://stackoverflow.com/users/214112/rusty) - <http://stackoverflow.com/users/214112/rusty>
- [GitHub](http://www.github.com/rustygeldmacher) - <http://www.github.com/rustygeldmacher>
- [LinkedIn](http://www.linkedin.com/pub/rusty-geldmacher/2/8a6/647) - <http://www.linkedin.com/pub/rusty-geldmacher/2/8a6/647>

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