

# THOMAS MAREK

## Senior Ruby Web Application Developer

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Ten years of experience designing and developing Web Applications (with five years on Rails applications) including back-end service integration, performance analysis and optimization, complex database models, and state-of-the-art graphical user interfaces. Specialized in agile software development with Kanban and Scrum. Experienced leading a technical team, working remotely and exceeding expectations.

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|-----------------------------|---|
| <i>Concepts</i>             | Agile Development, BDD, Kanban, Scrum, Responsive Design  |
| <i>Languages</i>            | Ruby (5 years), JavaScript (10 years), CoffeeScript (2 year),<br>Python (9 years), C++ (10 years) |
| <i>Web Technologies</i>     | HTML, CSS, XML, JSON, REST, AJAX, WebSockets  |
| <i>Ruby Ecosystem</i>       | Rails, Sinatra, Middleman, Sidekiq, RSpec, FactoryGirl, Capybara                                  |
| <i>JavaScript Ecosystem</i> | Node.js, jQuery, Underscore.js  |
| <i>Data Stores</i>          | PostgreSQL, MySQL, MongoDB, CouchDB, Memcached  |
| <i>Software</i>             | RubyMine, Git, Photoshop, Nginx, Phusion Passenger, Puppet  |
| <i>Services</i>             | AWS, Heroku, Bugsnag, NodePing, New Relic, Google Analytics, Trello                               |

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## PROFESSIONAL EXPERIENCE

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### Part time Lead Developer

June 2013 - Present

### Lead Developer

April 2013 - May 2013

### Web Application Developer

October 2012 - March 2013

*uSwitch Ireland, Dublin, Ireland*

Led the development of <http://www.uswitch.ie>, a PPC and SEO driven comparison and switching service for broadband and energy products in Ireland. The last eleven months remotely from Germany and USA.

- Developed a Node.js application, which tracks all user activity and interacts with Google Analytics API, to be able to measure and improve the performance of Google AdWords campaigns.
- Increased SEO traffic by 20% with the creation of dynamic location based landing pages.
- Improved overall site performance by creating a Sinatra web service to prepare and cache Wordpress content for the dynamic integration into landing pages.
- Installed and established a staging environment, which replicates the full production stack, to advance quality and stability of new features.
- Reduced the page load time by 35% through migrating the whole cloud based application stack from USA to Europe, implementing caching on multiple levels and optimising database queries.
- Created a tool with Ruby and Puppet to ease managing our infrastructure hosted on Amazon EC2.
- Boosted our company's productivity and quality of work by supervising our Kanban-style agile workflow and initiating the use of a web-based project management tool.
- Interviewed and later trained new developers.

*Technologies:* Rails, Sinatra, Node.js, WordPress, Jekyll, RSpec, Haml, Sass, CoffeeScript, jQuery, PostgreSQL, MySQL, MongoDB, Memcached, AWS, Heroku, Nginx, Puppet, Bugsnag

### Software Developer

June 2005 - September 2012

*BioSolveIT GmbH, Sankt Augustin, Germany*

BioSolveIT is a globally operating scientific software development company providing tools, services, and research collaborations within the areas of drug design.

Most noteworthy among many projects include:

EU-funded Project Open PHACTS: Developed the back-end for <http://www.chembionavigator.org>. The last two months remotely from Dublin.

- Developed a Ruby Gem to communicate with the web services of ChemSpider and the Linked Data Cache API of the OPS Platform. ([http://github.com/openphacts/ops\\_gems](http://github.com/openphacts/ops_gems))
- Established real-time bidirectional server/client communication over WebSockets to speed-up user workflows.
- Built a multithreaded command-line tool to bind internally developed C++ libraries to Ruby back-end services. Tool designed to be highly scalable and resource efficient.
- Integrated a background job system for long running tasks to reduce user wait times.
- Setup a production server including error notification, maintenance mode and staging environment.

*Technologies:* Rails, RSpec, Haml, Sass, ExtJS, MySQL, Apache httpd, Phusion Passenger, HAProxy

Internal Agile Project Management Tool: Managed the full product lifecycle of a Rails Application.

- Leveraged continuous server polling to keep client data up to date thereby preventing parallel write conflicts in a multi-user environment.

*Technologies:* Rails, RSpec, MySQL, Apache httpd, Phusion Passenger

Internal License Management Tool: Developed a web-based License Management Tool in Python.

- Defined and implemented an Email based API to allow an external application to automatically generate test licenses.

LeadIT: Contributed as a development team-member to the company's main product written in C++ on Qt.

- Mentored junior developers by pair programming and code reviews to boost team performance and improve code quality.
- Scraped and re-engineered the test system to simplify the prevention of regressions and reduce maintenance costs.
- Established an automated process for continuous integration and packaging to improve the software quality and reduce the time to market.

*Technologies:* Pivotal Tracker, Jenkins

## **ScrumMaster**

October 2010 - September 2012

*BioSolveIT GmbH, Sankt Augustin, Germany*

- Increased our company's productivity and quality of work by initiating and supervising the adoption to agile software development with Scrum.

## EDUCATION

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## **Professional Training as a Certified Computer Specialist**

June 2002 - June 2005

*BioSolveIT GmbH, Sankt Augustin, Germany*

“Fachinformatiker für Anwendungsentwicklung” - Three-year practical training in a company accompanied by lectures and exams in a vocational training college. The training focused on software development and fundamental economic principles.