

Michal Garbacz

Software Artisan

EXPERIENCE

Technical Analyst, State Farm Insurance

Bloomington, IL — Jan 2013 - Current

Operating as a surgical strike force of R&D for internal collaboration tools.

Software Engineering Intern, State Farm Research and Development Center

Champaign, IL — Jan 2009 - Dec 2012

Designed and developed a wide variety of working prototype software. Part time during the Spring/Fall semesters, and full time during the summer.

Projects

- Parallel Programming → Designed and implemented a concurrent, distributed client-server system. Successfully simulated tens of thousands of clients using the system on cheap hardware. (Erlang, Mnesia)
- Polyglot Programming → Parallelized the logic of a generic Java web application using the Scala language for a 70x gain in performance while retaining a Java container for the application. (Java, Scala)
- Experimental Prototyping → Designed a semantic-web inspired office assistant prototype. Presented said prototype to an executive audience. (HTML/CSS/JS, jQuery, Windows Desktop Gadgets)
- Android Application Development → Designed and built a context-sensitive application that uses time and location to trigger text, email, or Facebook notifications to user's contacts. (Android)
- Backend Web Development → Developed an application that allows administration of content through web forms for a desktop/mobile website. Worked directly with business partners in an Agile manner. (rdc.statefarm.com) (Ruby on Rails, SQLite, MongoDB, HTML/CSS/JS)
- Frontend Web Development → Utilized HTML5/CSS3, client-side MVC, RESTful API design, and Node.js to create a responsive single-page web application that allows users to track project progress with team members in real-time.

Freelance Work

I work on a variety of projects on my own time. I open source them on Github (github.com/mgarbacz)

Highlights

- Todo App → Quickly developed a simple Ruby on Rails todo list application using TDD for the fun of it ([source code](#))
- Personal website (Work in Progress) → Designed to showcase my projects and experience. Allows me to experiment with new web technologies. Website components compiled and committed to host using Python.
- Active member of the Stack Overflow developer community. ([user:937718](#))

EDUCATION

University of Illinois at Urbana-Champaign, College of Engineering, Computer Science

Champaign, IL — 2008 to 2012

SKILLS

- Sound Knowledge → JavaScript, Python, Java, Ruby on Rails, HTML5/CSS3
- Experience With → Erlang, Scala, PHP, C#, F#, C++, SQL, Node.js

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