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.

Projects
- Business Social → Designed and developed various UI and UX improvements for internal social tools.
- Intranet Redesign → Designed a reimagining of the current intranet that will improve usability and search relevancy.

Software Engineering Intern, State Farm Research and Development Center
Champaign, IL — Feb 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)
- 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 a web 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 → Developed a responsive web application powered by a RESTful API that allows users to track project progress with team members in real-time. (HTML5/CSS3, client-side MVC, Node.js, WebSockets)

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 → Rapidly developed a simple Ruby on Rails todo list application to experiment with TDD (source code)
- Treats for Beats → Developing a web plugin to draw audio visualizations in the browser (source code)(demo)
- 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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