

Michal Garbacz

Software Craftsman

EXPERIENCE

Systems Analyst, State Farm Insurance

Bloomington, IL — Jan 2013 - Current

Operating as a surgical strike force of R&D in our innovation area.

Projects

- Business Social → Developed backend data model and UX improvements for internal social tools. (Backbone.js, REST API, Open Graph)
- Data Visualization → Developed a web application that feeds and consumes Hadoop stored data to produce manipulable visual interpretations. (Java, Hadoop, D3.js)
- Mobile First Design → Developed a scorecard web application to score websites on their adherence to the mobile first design philosophy. (Node.js, Phantom.js, Angular.js, Web Sockets)

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)
- 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 with a content management system and mobile/desktop views. Worked in tight feedback cycles. (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, Backbone.js, Node.js, Web Sockets)

Freelance Work

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

Highlights

- Adventure Tone → Developing a collaborative, grid-based music generation web application ([source code](#))([demo](#))
- 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 (client-side and Node.js), Ruby on Rails, HTML5/CSS3, Java
- Experience With → Python, Erlang, Scala, PHP, C#, F#, C++

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