

# Andy Weber

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## About

Lead engineer with 15+ years experience uniting well-informed business strategy with forward-looking technical implementations through creative critical thinking, team collaboration, continuous learning and a strong dedication to the craft. Ensuring the planning and execution cycles align, while deeper insightful ideas are encouraged, cultivated and expressed. Intentional digital creation, to support meaningful decisions with precision and ingenuity.

## Skills

Full stack engineer · Systems architecture · Cutting edge research and application · Agile workflow  
Problem solver · Time scope and budget conscious · Creates ambitious technology · Team oriented

- **Frameworks:** Ruby on Rails since 2009, Wordpress, Twilio, Bootstrap, SCSS, Sinatra, Laravel
- **Javascript:** ECMAScript 6, Node, NPM, Vue.js, jQuery, Ember, Angular, Webpack, React, Flux, Express, Meteor, Cordova, Ionic, Axios
- **DevOps:** AWS and Google Cloud services, Continuous Integration and Deployment, Gitlab, Ubuntu Servers, LEMP, VPS, Docker, Ansible
- **Scripting:** Ruby, PHP, Python, javascript, SQL, Bash, Git
- **Data analysis** transformation and visualization: OpenRefine, Ruby, Cytoscape, Custom scripting
- **Native Applications:** Native applications for iOS and Android utilizing Rails 5, Wordpress 5, Digital Ocean, Vue.js, Cordova
- **Ecommerce:** Reusable ecommerce donation platform targeted at non-profit organizations. Rails 5, Rspec BDD testing, Active Admin management backend, Stripe.com payment processing, custom CMS architecture
- **Design / Development collaboration:** High attention to user experience and interaction details through highly refined front-end implementation and cross-team communication.

# Qualities

## Business Purpose and Technology Expertise

Ensuring that technical insights inform business strategy, and resulting decisions align with the best suited technical expression. Delivering complete technical solutions from operating systems to meaningful user interactions.

## Tech Solutions Delivered Across Verticals

Providing solutions for: Healthcare, Non-profit Development Platforms, Environmental Business Systems Metrics, Research and Development Teams, Consumer and Commercial Products, Contract Furniture, Industrial Electronics, Hospitality and Event Facilitation, Youth Activities, Marketing and Communications

## Rapid Prototyping

Clarifying understanding across organizations and teams early and often utilizing simple yet sophisticated digital prototypes enabling faster alignment, increased quality and reduced costs.

## Learning Thinking Doing

Discover client's unique situations. Explore systems, assumptions, expectations, new opportunities and inventive ways to achieve meaningful results from challenging situations. Embracing active design thinking, user research, user experience design and comprehensive digital creation.

# Languages and Technologies

Value comes from people who imagine something better, relying on language to align with others, define and share their ambitions. As a technologist I translate many digital languages to help people realize their goals. These are exciting tools in the digital craft, but the most important one remains our shared English language which allows us to articulate and appreciate each others character, meaning and passions.

agile, android, angular, apache, api, apt, asynchronous, authentication, aws, bash, bdd, captcha, cdn, certbot, ci/cd, cms, clojure, cloud services, compass, console, cordova, csrf, css, csv, cytoscape, data transformation, databases, digital ocean, dns, docker, doctype, dom, ecmascript, elixir, ember, exif, firebase, ftp, geolocation, git, graph databases, graph visualization, greensock, grep, heroku, hosts, html5, https, interfaces, iphone, javascript, jq, jquery, json, json:api, lamp, laravel, linux, make, middleman, mobile, mvc, mysql, nginx, node, oauth, permissions, phonegap, photoshop, php, postgres, postman, python, rails, regular expression, react, rest, rss, rsync, ruby, scss, scm, screen, scripting, sharepoint, shebang, sinatra, social, spark, stripe, sql, sqlite3, ssh, ssl, svn, taxonomy, terminal, testing, ttl, twilio, ubuntu, vagrant, virtual host, vuejs, weather data, web sockets, wordpress, xml, XMLHttpRequest, xss, yaml, z

# Professional Experience

## Designvox

2012-2019 : Lead Engineer

Research, architect, and implement ambitious technology projects. Manage infrastructure, software as a service analysis, library and framework comparisons, ground-up coding and delivery of systems designed for people solving their communication, business strategy, e-commerce, and organizational needs.

Capture, visualize, identify critical business systems via comprehensive workshops and deliver highly customized data visualization representing organizational workflows and opportunities.

Appreciation for creative solutions, technical accuracy, continuous learning, balancing abstraction with uniqueness, and the beauty of applied simplicity.

## Peopledesign

2006-2012 : Senior Developer

Planned and implemented custom brand management and research applications. Established internal workflow systems to gain high level company overview. Focus toward the people using the technical solution at hand, dedication to the quality of the craftsmanship.

# Projects

## United Airlines

Streamlined employee healthcare selection process. Data analysis and transformation combined with manageable customized tech stack resulted in increased enrollment and substantial corporate savings.

Tech: OpenRefine data processing, Rapid prototyping, Ruby, Middleman, AWS, Wordpress

## Newell Rubbermaid

Increasing employee involvement with business systems broadcast through large environmental display walls. Sharing real-time product lifecycle status and project ROI forecasting with product design and development teams.

Tech: Custom data visualization with jQuery, Raphael.js, SharePoint, RestAPI

## Whirlpool

One Step Stories campaign reduced corporate healthcare costs by encouraging healthy employee behavior change and advocating for better informed healthcare plan selection.

Storytelling platform: multi-faceted and multi-phased operation, digital wall installations corporate-wide across all locations, flexible and intuitive content delivery workflow, sms voting via twilio.

Tech: Wordpress, SMS via Twilio, Custom Rest API endpoints, VPS, SQL, Distributed platform (web, TV installations)

## Steelcase

Collaborated with various global teams. Researched human needs on-site and in person, distilled, translated and developed multiple cohesive business systems which embrace and enhance current human behavior:

- Graph database search engine interface development
- Product development lifecycle communication
- Research and development media
- Enterprise social media integration
- Global executive collaboration boards

Tech: Java, Processing, Greensock programmatic animation, Websockets, Ember.js, Graph theory, Cytoscape, JSON:API

## Grand Rapids Chamber of Commerce

## Hope Water International

Non-profit development platform providing leaders with a flexible and effective management of campaigns, teams, and individual fundraising opportunities. \$436,000 raised in the inaugural year.

Tech: Rails 5, Stripe ecommerce payment processing, HTML5, SCSS, CI/CD, Behaviour driven testing