

# Sarah Ann Garcia

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## SKILLS

**Languages:** HTML5, CSS3, SCSS, JavaScript, jQuery, ReactJS, React-Redux, NodeJS

**Development Tools:** GitHub, Slack, mLab, Heroku, Netlify, Travis CI, WordPress

**Software:** SolidWorks, AutoCAD, Office Suite, MatLab

**Technical:** Problem Solving, Technical Writing, Data Analysis, Collection, & Presentation, Failure Analysis, Root-cause-analysis

## PROJECTS

**Blog Post Feature - HTML5, SCSS, JavaScript, jQuery, ReactJS, & NodeJS**

**July-August 2018**

Enhanced User-Interface with a blog posting, editing, and view portal for the San Diego Brewers Guild (contracted via Paradeigm LLC)

**PhotoLife - HTML5, CSS, JavaScript, React, & NodeJS**

**May 2018**

PhotoLife app is used to journal your life, in photos. A user can make entries daily, weekly, or as often as they like. Each entry can be captioned which makes the entry searchable by caption.

**Mind Palace - HTML5, CSS, JavaScript, jQuery, & NodeJS**

**March 2018**

The Mind Palace app organizes the overflow of the mind. Schedules, bill paying, grocery lists, playdates, dreams, goals, ambitions... Mind Palace allows you to take all of these aspects of your life and store them in one place.

**RecipeDepot - HTML5, CSS, JavaScript, & jQuery**

**November 2017**

The RecipeDepot app utilizes a third party API to find recipes for any lifestyle with search refinement capabilities.

## EXPERIENCE

**Freelance Web Developer & Engineer, Garcia Web Development**

**July 2018 - Present**

- Design user experience (UX) and user interface (UI) for web applications
- Submit wireframes for customer approval
- Modify underlying code for existing template to meet customer needs
- Debugging and resolving browser and mobile styling issues
- Experience with planning, designing, prototyping, testing, and deploying websites
- Develop client websites using: NodeJS, ReactJS, Redux, HTML5, CSS3, SCSS, jQuery, JavaScript
- Experience with: WordPress and other pre-packaged website building services
- Utilize GitHub for version control

**Mechanical Engineer, TrackMobile LLC**

**October 2013 - May 2017**

- Responsible for pneumatic, electrical, hydraulic, and mechanical design for varying machine elements
- Conducted cost analysis for pneumatic system resulting in a savings of 31% per machine
- Designed elements and used technical writing skills to create work instructions for proper installation and assembly
- Frequently performed root cause analysis, problem solving, and solution implementation for machine systems
- Internal audit training for ISO 9001
- Certified Fluid Power Hydraulic Specialist through the International Fluid Power Society (IFPS)
- Proficient in SolidWorks 3D CAD software for design, FEA, and machine drawings
- Familiar with basic SAE J1939 CAN bus diagnostics, Class1 multiplex controller database construction and troubleshooting, and Murphy GUI programming and basic diagnostics

**Mechanical Engineering Intern, MTS Systems Corporation**

**May 2012 - August 2012**

- Performed friction analysis and testing for swivel joints and a composite clutch material
- Tested/set up an advanced controller and hydraulic system for a Road Simulator
- Designed and set up bearing housing oil monitoring for a Rolling Road system

**Machinery Engineering Intern, ExxonMobil Corporation (Beaumont Polyethylene Plant)**

**May 2011 - August 2011**

- Determined root-cause-analysis of pump failure and implemented improvements
- Gained experience with plant maintenance and equipment
- Experienced working through a mechanical line overhaul

**Service Engineering Intern, Cummins**

**May 2010 - August 2010**

- Created training documentation for turbocharger failure analysis
- Experience with Six Sigma
- Training courses: Engine Familiarization, Component Evaluation & Failure Analysis, and MATLAB

**Tutoring**

**January 2008 - Present**

- Private: Tutored Pre-Algebra through Calculus II & Chemistry
- The Georgia Institute of Technology: Tutored, taught a recitation, and graded for a Computer Science course
- Columbus State University: Tutored all levels of mathematics through Calculus III, Chemistry, & Physics

**EDUCATION**

Full Stack Web Developer, Web Development  
BS in Mechanical Engineering, Mechanical Engineering: 3.94  
Pre-Engineering, Regents Engineering Transfer Program

Thinkful: Full Stack & Data Science  
Georgia Institute of Technology  
Columbus State University

