

Frederick Eugene Calk

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Education

Auburn University (August 2010 - May 2015) – Auburn, AL
Bachelor of Chemical Engineering
Minor: Business

DigitalCrafts (October 2015 - January 2016) — Atlanta, GA
16-week full-stack immersive web development bootcamp.

Work & Project Experience

CALK LAWN SERVICES (Sole Proprietorship)
Lawn Care — Part-time (Summers 2004-2015)

- Responsible for mowing, edging, blowing, and bagging of leaves and lawn trimmings.

ANGULAR FOOTBALL APP ([Side Project](#))

Game — HTML5, Angular, and jQuery (November 2015 - January 2016)

- HTML Canvas tag used to illustrate the game actions.
- Angular used to bind the scoreboard, team, and player data to the screen.
- Uses 6 players from each SEC team from the 2015 season. Players are objects, and are stored in arrays which are stored in an object for each team.
- Interface includes team selection, an animated coin toss, and the game play screen.

CANVAS WEATHER APP ([API Practice](#))

Application — HTML5 and jQuery (October 2015)

- Uses the Open Weather Map API to gather the data.
 - App is limited to locations within the U.S.
 - Uses Canvas to animate the current temperature gauge. (Goes in reverse for negative temperatures, but cannot handle temperatures above 100 degrees).
 - Uses CSS transform to animate the wind arrow (convention says that wind conditions report where the wind is coming from, not where it is headed).
 - The speed of the arrow spin is a function of the wind speed in the city that was most recently searched.
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Skills

- HTML5, CSS3, JavaScript, jQuery, and SASS.
 - MEAN stack: MongoDB, Express js, Angular js, and Node js
 - LAMP stack: Linux, Apache, MySQL, and PHP (mostly MySQL and PHP)
 - MATLAB (MATrix LABoratory), mathematic programming language
 - Process Modeling; Data Analysis; System Optimization; Engineering Statistics
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Achievements and Involvements

- Charter Academic Scholarship (Auburn University)
- Deans List – Fall 2012
- Volunteering at the East Alabama Community food bank
- History of service through First Presbyterian Church of Atlanta
- Recreational Golfing, Running, and Intramural Softball League