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.

Skills

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

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