

JOHN A. CALDERAIO

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SUMMARY

I am a recent Computer Science Engineering graduate with experience writing algorithms in Java, JavaScript, and C++. In addition, I have developed web and hybrid-mobile applications using Ionic, Angular, and React-Native. I am also familiar with Scrum and Agile methodologies from my internships at Lockheed Martin and IBM. I've coded a shell in C, developed native iOS apps in Swift, and written entire business plans from scratch (including the patent). I currently have a back injury, so I must work 100% remotely from my bed.

SKILLS

Java, C++, C, JavaScript (ES5/6/7), Native iOS development (Swift), Hybrid iOS and Android development (React-Native, MobX, Ionic/Cordova w/ Angular), Front-End Web (HTML/CSS, jQuery, SASS, Bootstrap, Materialize), Backend Web + Mobile (PHP, JSON, REST APIs, MongoDB, Express, SQL, Oracle DBMS), GitHub

EDUCATION

Bachelor of Science in Computer Science

University of Florida, Gainesville, Florida

Grade Point Average: 3.90/4.0

Graduated *Summa Cum Laude* with President's Honor Roll

Associate of Arts in General Education

Palm Beach State College, Palm Beach Gardens, Florida

Grade Point Average: 4.0/4.0

Graduated *Summa Cum Laude* with President's Honor Roll

PROFESSIONAL EXPERIENCE

React Native Mobile App Developer

February 2017 – current

Parametric Solutions – Remotely

- Currently developing an employee timesheet application for my client in iOS and Android, using React Native technology
- Employing Expo, a third party library, to allow my client to see what I'm working on in real-time on their iPhone or Android. In addition, allows source code to be written in 100% in JavaScript and to be completely cross-platform and reusable on both iOS/Android.
- Utilizing React Native's "Fetch" function to make REST calls to the API on server-side to receive important variables that I will be using in other REST calls
- Using React Navigation, React's newest navigation library, to nest app's navigators
- Using MobX to persist state across all views

Software Developer Intern

June 2015 – August 2015

IBM – Remotely

- Resolved defects in IBM BPM Responsive Portal using AngularJS, HTML, CSS, and JavaScript. Defects included creating custom directives specific to DOM manipulation, adding logic within

controllers to communicate feedback to the user, and modifying angular services to retrieve variables used within the templates

- Performed code reviews submitted for my approval before being released into current software build
- Worked closely with a team of software developers and designers and met in daily scrum meetings where we discussed user stories and defects to ensure our objectives would be achieved by the end of each sprint

Senior Software Engineer Intern

June 2014 – August 2014

Lockheed Martin - Orlando, Florida

- Developed web applications on JBoss using Java Servlets and JavaServer Pages within a team of software engineers
- Created functional use cases for the F-35 Lightning II Joint Strike Fighter's Autonomic Logistics Information System (ALIS) using Enterprise Architect
- Designed embedded systems utilizing Raspberry Pi, python, and circuits within a team of four to solve design challenges proposed by Lockheed Martin's Research and Development team

Laboratory Intern

August 2012 – August 2013

The Renewable Corporation, Lake Park, Florida

- Synthesized coatings that completely seal in asbestos surfaces, encapsulating hazardous materials
- Spearheaded research and reformulation team on project to increase slip resistance in all floor coatings
- Researched surface bubbling production anomaly with TRC's flagship coating product and submitted a comprehensive reformulation proposal that eliminated all inconsistencies
- Identified and corrected several situations in which pH fluctuation was affecting product shelf life, saving the company upwards of thousands of dollars per year
- Maintained stock supply levels and communicated directly with chemical distributors to optimize purchases and explore cost saving alternatives

Private Tutor

March 2012 – December 2012

Palm Beach State College, Palm Beach Gardens, Florida

- Led private chemistry, calculus, and physics tutoring sessions
- Worked diligently with students to increase their comprehension of complex concepts, resulting in an increase of one letter grade by most tutees

Sales Associate

March 2008 – January 2011

Nordstrom, Palm Beach Gardens, Florida

- Consistently ranked among top sales representatives in region
- Winner of over six performance contests for highest overall net sales and highest ranking in customer satisfaction
- Performed market research to obtain knowledge of competing companies and to implement sales strategies

PROJECTS

React Native Projects

Jan 2017 - Current

- After graduation, in an attempt to hone my React Native skills, I watched a course on Udemy and followed multiple other tutorials making React Native apps
- Served data using Express and MongoDB to make API endpoint
- Used Redux to pull data from API endpoint to use throughout app

Online Gainesville

December 2016

- Started local Mobile App and Web Development company, *Online Gainesville*
- Bought Domain name, Site Hosting, business cards, and cold-called from yellow pages to acquire customers
- "www.onlinegainesville.com"

React-Native vs Swift Apps

September 2016

University of Florida, Gainesville

This was a University of Florida sanctioned research project. React-Native is Facebook's new hybrid mobile framework. It is unlike other hybrid mobile frameworks because it compiles the JavaScript to real Objective-C code for iOS and Java code for Android. Because hybrid mobile development is such a hot topic right now, and React-Native is the newest player to the game, I wanted to test how good it really was.

In order to do this, I made two identical apps - one in Swift and one in React-Native. I then used Apple Instruments to compare their performance and graph my findings. My findings showed that React-Native is in fact as performant as native iOS apps, and even slightly faster. I published a research paper summarizing my findings and was granted Summa Cum Laude highest honors for my work.

*Read my paper at: <https://medium.com/the-react-native-log/comparing-the-performance-between-native-ios-swift-and-react-native-7b5490d363e2#.a7mck7ig5>

No Satellite GPS

September 2015

University of Florida, Gainesville

This was a University of Florida sanctioned research project. My professor wanted the Computer Science department mapped in 3D on AutoCAD and stored in a Spatial Database for offline GPS traversal.

I Utilized Ionic, AngularJS, Cordova, and SpatiaLite's JavaScript library to create a hybrid mobile Spatial Database on iOS. The Computer Science Department/AutoCAD model was then imported as a GeoJSON object into the app. The use of the app could search for a room number (for example) and the app would retrieve the JSON data from the Spatial Database.

Shell in C

April 2015

- For our Operating Systems class, we had to create a Shell to run on terminal in Unix.
- Made to imitate many of Unix/Mac's terminal functionality
- Written in C using Lex & Yacc

Turnup (Videogame Tournament Hosting App)

March 2015

- Used Ionic & Cordova to create a cross platform application called "Turnup" to Find and Host local Videogame tournaments
- Wrote directives in Angular to serve data
- Developed CSS & JS responsive menu
- Created member list via Parse API

University of Florida Faculty Database Sharing Web App

January 2015

A web app for UF faculty, researchers, and grad students to share databases that they use. Users can also create a portfolio so that they can keep track of databases they use, as well as add databases that they find that other users have added.

Webpage Linked to Database

September 2014

- Stored 110,001 tuples of music at random from the data on an Oracle DB backend
- Constructed a frontend using jQuery & Bootstrap

- Used PHP to query the database & for input validation

FriendMesh

March 2014

- In my Engineering Entrepreneurship course, I was chosen by my professor and Dean to accompany them to Silicon Valley and present my team’s mobile app to UF Alumni Donors such as Chris Malachowsky (NVIDIA Creator) and David Faircloth (a Vice President at IBM).
- Wrote and filed provisional patent pertaining to the operation of mobile application

AWARDS & AFFILIATIONS

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| Summa Cum Laude & Presidents Honor Roll | 2012 - 2016 |
| Member, Toastmasters University of Florida Chapter | 2013 –2016 |
| Member, Computer Information Security Team | 2015 |
| Martin Luther King Jr. Leadership Award , presented to the student who has made the most innovative contribution toward improving the lives of others in Palm Beach County | 2013 |
| Vice President, Student Government Association | 2012 – 2013 |
| Outstanding Student Government Senator Award | 2012 |
| Lead Project Engineer: NASA Reduced Gravity Education Flight Program , Florida Engineering Society | 2012 |