

# Fredrick F. Khoury

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## EDUCATION

Candidate for **Bachelor of Science in Business Administration**, The University of Alabama

**Graduation Date:** May 2015

**Major GPA:** 3.2/4.0

**Major:** Management Information Systems

Nov 2014 -  
Feb 2015

**Lead Developer**, *Birmingham Mountain Walks*, client: *Red Mountain Park, Birmingham, AL*

**Goal:** Develop interactive trail map mobile web application for use at the park

**Value:** Improve the user experience while visiting the park

**My Contribution:**

- Provided visitors a better experience while at the park by developing mobile web application to display a digital interactive view of the park
- Enabled visitors to track their progress as they traverse through the park by implementing a GPS system into the trail map application
- Improved visibility of trails on the map by incorporating a show/hide feature to isolate desired trail information
- Lead application design process utilizing Google Maps Javascript API v3, Javascript, JQuery, and ExpressJS

Jan 2014 -  
June 2014

**Systems Developer**, *UA MIS Program*, client: *Med+Pass, Tuscaloosa, AL*

**Goal:** Develop immunization verification web application for use by university student health centers

**Value:** Improve the quality of student health services and universities' response to unhealthy outbreaks

**My Contribution:**

- Streamlined the student immunization process by developing a web application that enables students to fill out and submit immunization forms digitally
- Coordinated database security efforts utilizing OAuth, AES, and key-value pairs
- Lead the application design process utilizing C#, .NET, MVC5, Team Foundation Server, and Windows Azure Cloud Services
- Mentored fellow team members to facilitate the technical development of the team

August 2013 –  
December 2013

**Data Scientist**, *UA MIS Program*, client: *Sterne Agee, Tuscaloosa, AL*

**Goal:** Test the feasibility of incorporating an enterprise data bus using Master Data Management practices

**Value:** Ensure data integrity and correct data hierarchical rules throughout the enterprise

**My Contribution:**

- Defined enterprise-wide business rules in order to ensure that the solution satisfied all requirements from the different lines of business
- Created a model utilizing a star schema to allow for more efficient reporting on the data
- Empowered users to create their own reports and manipulate inconsistent data by configuring an Excel add-in for Master Data Services
- Lead the testing efforts to ensure that the solution created functioned properly and reduce any errors in the model or the data within the model

## TECHNICAL EXPERIENCE

**Languages:** C# , Javascript, SQL, JQuery, Razor, Ruby, HTML5, CSS, JavaScript, C++,

**Frameworks:** MVC, .NET, Express, Rails

**Database:** MS SQL, MongoDB

**Operating Environments:** MS Windows, Ubuntu, Lubuntu, Mac OS, Fedora

**Other Technologies:** Node.js, Microsoft Visual Studio, Microsoft SQL Server Management Studio, Microsoft Azure, Microsoft Master Data Services, Team Foundation Server, Github, Heroku, Eclipse, Webstorm, VMware, Vim, Selenium

## HONORS AND ACTIVITIES

- Code for Birmingham
- Alabama Information Management Society
- Relay for Life

