**EDUCATION**

**University of North Carolina at Charlotte** – Charlotte, NC

B.S. Computer Science Focus: Visualization, Graphics – Graduated 2014

**RELEVANT WORK EXPERIENCE**

**Charlotte Visualization Center – Researcher** Sep 2011 – July 2013

* Developed web application for analysis of hundreds of thousands of points of network data
* Crawled the CiteSeerX website to dynamically create and sort large tables
* Developed methods to visualize large and growing citation networks
* Designed and implemented entirely original software utilizing JavaScript, HTML5, PHP, SQL, SVG, Java, Android SDK

Created an application to crawl CiteSeerX research papers and dynamically build a node-link diagram to visualize a citation tree. This was programmed with server-side PHP threading and displayed to clients through a web interface which was ported onto an Android application.

**Charlotte Visualization Center – Software Developer** Dec 2010 – Aug 2011

* Designed a web based navigation tool for use in browsers and mobile devices
* Developed multimedia applications tailored to different displays
* Integrated and adapted existing server side applications (C++) into web environment using JavaScript, SVG, PHP, and HTML5

Developed a web application to draw routes between two locations using an existing C++ backend. This provided additional functionality to a system which originally guided emergency response personnel to a location using a mobile interface. The pathing data from the original system was drawn dynamically on a map, and a user could then create a customized tour of the campus including a provided route as well as promotional media for each location. This project required mastering workflow inside a two-person team, and also reacting to changing demands from project management.

**INTERESTS**

* Music (Electronic, Guitar, Piano), Literature, Auto Mechanics
* Personal Website: [craigmason.noip.me](http://craigmason.noip.me/)

**SKILLS**

* Programming Languages – HTML5, JavaScript, C#, C++, Java, SQL, PHP
* Frameworks –ASP.NET, Android SDK, JQuery