

# Nickolas J Hilton

Seeking full-time employment as a software developer beginning Summer of 2017

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## Education

Rochester Institute of Technology  
BS in Computer Science, December 2016  
Cumulative GPA: 3.5  
Computer Science House Member

## Relevant Classes

Parallel and Distributed Systems  
Object Oriented Programming  
Data Structures

## Knowledgeable in

♦ C#  
♦ C++/CX  
♦ Javascript/JQuery  
♦ HTML/CSS

## Comfortable With

♦ Node JS  
♦ C  
♦ Haskell  
♦ Linux

## Exposed To

♦ Python  
♦ Java  
♦ x86 Assembly  
♦ Objective C

## Personal Projects ([github.com/geekster777](https://github.com/geekster777))

### Personal Blog

Project written with NodeJS, AngularJS, and MongoDB  
Web app pulls articles from a database to present  
Admin login to create articles through Web UI

### 3Ddepict

Web app using JQuery and HTML5 Canvas to draw  
Allows multiple layers for three dimensional effect  
Parallax mode to change view angle with mouse input

### 3-Dimensional Game Engine

Personal learning project coded in C#  
Created in-game models and lighting  
Programmed level-making functionality

### 8x8x8 LED Cube

A cube of over 500 LED's  
Displays three dimensional animations  
Powered by an Arduino.

## Professional Experience

### Microsoft Summer - 2015

Used C++/CX to make a Universal Windows App for the Windows Shell team  
App used to validate and create JSON consumed by a feature of Windows 10  
Tested cutting edge tools during Windows 10 and Visual Studios 2015 development

### Intuit Spring - 2015

Created a co-browsing and video chat solution for use with customer insights  
Developed co-browsing solution using Javascript, Websockets, and WebRTC  
Presented solution to executives, as well as its current market competitors  
Developed a "man in the middle" application meant to push the boundaries of browser security  
Application would create a sandboxed iframe for running external HTML and Javascript  
Developed a state machine graph creator using AngularJS and NodeJS  
Application allows outside companies to create applications to run on TurboTax engine  
Focus was on an intuitive user experience and wide functionality

### MITRE Spring - 2014 Summer - 2014

Acted as team leader on several projects, responsible for planning, pacing, and packaging  
Occupied a leadership role among a group of a dozen interns  
Created a secure content delivery system to scale to the corporate level  
Developed iOS applications to corporate security standards utilizing Good Dynamics  
Created applications for emerging technologies, such as the Pebble Watch  
Introduced interactive capabilities for traditionally simple sensors (iBeacons, QR Codes, Geofencing)

### MITRE Summer - 2013

Developed systems in C# utilizing network capabilities to control multiple networked devices  
Prototyped solution for securing digital artifacts in enterprise  
Assessed user based technology to obscure the complexity of a collaborative tool being prototyped  
Organized group of potential end users for usability testing  
Assessed and developed the prototype from the perspective of a millennial generation employee  
Presented the results to the highest levels of the company

### RIT Fall - 2013

Maintained and developed front end applications for the student body  
Developed small scale systems for the student body that utilized PHP, JQuery, and CSS3  
Utilized Javascript and CSS to push restrictions that third party systems imposed on projects