

► Objective

To find a game development internship that would benefit from my expertise in coding and software development

► Education

Carnegie Mellon University
Masters Entertainment Technology 2016

University of Virginia
B.S. Computer Science 2014
Minor Engineering Business 2014

► Skills

Languages: C#, Java, C++, PHP, Ruby, MySQL
Frameworks: Unity3D, MonoGame, CakePHP, Ruby on Rails
Source Control: Git, Perforce, Subversion

► Projects

Happy Foot - Makey Makey (Unity3D C#)

- Limits: **1 week + random team of 3**
- Programmed the logic for an interactive, balancing, hopscotch-like game
- Built a physical board that could read player footsteps using Makey Makey

MagnetE - Oculus Rift + PS Move (Unity3D C#)

- Limits: **2 weeks + random team of 5**
- Developed a game where the player must escape a zero-gravity environment using magnetism
- Programmed the magnetic push/pull mechanic, interactive objects, and event triggers

Breaking Math - Kinect (Unity3D C#)

- Limit: **2 weeks + random team of 5**
- Developed an educational game where the player uses his limbs to solve math equations
- Wrote a generator that produces equations of various difficulties

LEAP Capstone (Ruby on Rails)

- Created a database management system for the Local Energy Alliance Program, a local non-profit charity, with a team of six students

► Employment

Symantec

Herndon, VA

Software Engineering Intern

Jun 2013 to Aug 2013

- Implemented asynchronous logging in C and C++ using a thread-safe blocking queue
- Created a consumer thread for grabbing logs from the queue using the POSIX threads API
- Provided a basis for efficient data logging through the implementation of the queue and documentation

Research Programming Intern

Jun 2012 to Aug 2012

- Wrote a C++ program that reads topology text to simulate in Network Simulator 3
- Designed/programmed C++ classes to implement an algorithm that calculates unknown topologies
- Used linux tools (gnuplot, twopi) to graph all topologies and data gathered
- Allowed my manager to test the limits of his algorithm, visualize it, and effectively present his research