# NickHeindl

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# **Professional Experience**

### Flippfly Games Contract Programmer 2016

Unannounced Unity3D projects with the new TVOS platform for AppleTV.

### Activision | Blizzard - Raven Software

**SDE Intern** 

**Summer 2015** 

- Call of Duty Online Major Mode Gameplay Team; Polished existing game modes and prototyped new ones.
- Owned an engine internal tool to visualize weapon attachments. (C++)
- Optimized game critical systems and ported features from previous projects. (C++, C-like scripting)
- Developed a variant of the most popular PVE game mode. (C-like scripting)

### Amazon.com - Amazon Web Services

**SDE Intern** 

**Summer 2014** 

- Architected a "big data" scale metadata gathering and extraction service. (Java, Python, Bash, Javascript)
- Built a pipeline to gather millions of webpages, train, and tune datasets for machine learning analysis.
- 58% more accurate in some localizations; Overall 4% more accurate than leading competitors.

### **Mobile Learning Incubator**

Game Dev. Intern

**Summer 2013** 

- Open source iOS plant identification platform; Deployed to groups of ~100 students. (Objective-C)
- Open source iOS audio cropper tool; Integrated into existing Augmented Reality Game codebase. (Objective-C)

# **Selected Games&Projects**

### Monologue@Trainjam

2015

- Typing game in html5/js with dynamic phrase generation; Built on a train ride from Chi to San Fran.
- Featured at GDC, Gamejolt, Offworld, and Vsauce3. >90k Plays. gamejolt.com/games/monologue/56005

### Interactive Dance Environment@BoilerMake 2014

2014

• Award-winning hands-free "dance-to-code" programming IDE; C# and Unity3D, Kinect and Leap Motion APIs.

### Minecraft Mod: RPG, Farming, & Pizza

2014

Decompiled engine source and used Java/ForgeAPI to hack in gameplay features.

### Mosh Ball: Computer Graphics Project

2013

- Arena ball game made with a partner using C++, OpenGL, and Box2d for Physics.
- Gooch Shaders, Perlin Noise Shaders, Dynamic Shadows.

#### Pacemaker@Global Game Jam 2013

2013

- Rhythm/runner game; With another, made our engine and level creation tool in html5/js.
- Personally created a dynamic audio system in web.

# **Formal Education**

### University of Wisconsin-Madison 2016

Majors: Computer Science & Linguistics Certificate: Game Development (First one ever!)

**Relevant Coursework:** Data Structures, Machine Optimization, Operating Systems, Compilers, Algorithms, Artificial Intelligence, Software Eng., Graphics, Virtual Reality, Game Design, Linear Algebra, Crypto., Info. Security

## **Honors&Activities**

International Game Dev. Assoc.

• IGDA GDC Scholar 2015

### Badger Game Network

• Founder/Overseer

### **Undergrad Projects Lab**

Coordinator; http://upl.cs.wisc.edu

### **UW NEST Competition 2014**

2nd place & Wisconsin Idea Award

### UW NEST Competition 2013

Wisconsin Idea Award

### Google Games Chicago 2013

• 3rd overall - 1st in puzzles

#### BoilerMake 2014

• 2nd place (400+ hackers)

#### hackMIT 2013

Featured in Boston Globe

### UW Facebook Hack 2012

· Honorable Mention - Best Game

# Languages&Skills

- Java Go Objective-C/iOS C C++ Python C# Javascript Unity3D Mips/x86 asm OpenGL •
- git Perforce Bash Windows/OS X/Linux Photoshop Arduino Blender Project Euler German •