

Professional Experience

Activision Blizzard - Raven Software	Software Engineer	Feb 2018 - Present
	Associate Software Engineer	May 2016 - Feb 2018
	Software Engineer Intern	Summer 2015

Misc. Activision (ATVI)

- Led small team to finals in ATVI-wide innovation competition. Pitched to Studio Heads, Directors, and Execs.
- University Relations: Intern mentor; Onsite recruiting at schools across the country.

Unannounced AAA Title(s) Core Multiplayer Team; Campaign Team; 3rd Pillar Team (C++, C-like scripting)

- Engineering point of contact for player mechanics and movement.
- Coordinated with multiple studios and designers to lead refactor/simplification of widely used system.
- Helped prop up a modularized system for fast gameplay design and experimentation.

Call of Duty Black Ops III Engineering Support (C++, C-like scripting, Lua)

- Worked alongside other studios to implement core features.

Call of Duty Online Gameplay Engineering Team [SP/MP/Co-op](C++, C-like scripting)

- Worked with small team to create fresh modes; Port modes/features from previous CoD titles.
- Developed an in-game automated testing tool to assist designers and map builders on CoD's first Battle Royale.
- Wrote an onboarding guide/FAQ for new engineering hires to get up to speed quickly.
- Designed/Implemented player ranking system. Used live metrics to tune in-game reward/lootbox distribution.
- Architected and refactored multiple systems in our big, beautiful, legacy, Frankenstein-of-a-codebase.

Flippfly Games	Contract Engineer	Spring 2016
• Helped port a prototype of popular indie title Race The Sun to AppleTV. (tvOS, Unity3D, C#)		

Amazon.com - Amazon Web Services	Software 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.		
• Improved data accuracy by up to 300%; Resulted in vastly improved data quality and customer experience.		

Mobile Learning Incubator	Software Intern	Summer 2013
• Open source iOS plant identification platform; Deployed to groups of ~100 students. (Objective-C)		
• Worked with a partner to create an open source iOS audio cropper tool from scratch.		
• Integrated two fresh apps into large, preexisting Augmented Reality Game Platform codebase.		

Selected Personal Games&Projects

Monologue@Trainjam	2015
• Typing game in html5/js with dynamic phrase generation; Built on a 3-day train from Chicago to San Francisco.	
• Featured at Game Developers Conference (GDC), Gamejolt, Offworld, and Vsauce3. Currently has <u>>100k Plays</u> .	

Interactive Dance Environment@Boilermake	2014
• Award-winning hands-free "dance-to-code" programming IDE; Translate dance moves to Python!	
• Made prototype with two others within 36 hours. (C#, Unity3D, Kinect and Leap Motion APIs)	

Formal Education

University of Wisconsin - Madison

2016

- **Majors:** Computer Sciences & Linguistics
- **Certificate/Emphasis:** Game Development (Helped create the certificate)
- **Relevant Coursework:** Data Structures, Machine Organization, Operating Systems, Compilers, Algorithms, Artificial Intelligence, Software Eng., Graphics, Virtual Reality, Game Design, Linear Algebra, Crypto., Info. Security

Community Involvement

International Game Developers Association Foundation

2017 - 2018

- GDC Scholars Program Coordinator
- Worked year-round to bring 18 talented students of all backgrounds and disciplines to GDC.

Undergraduate Projects Lab (UPL) <https://uw-upl.github.io/about.html>

2012 - 2016

- Coordinator in charge of creating events and facilitating student projects to help foster UW's CS community.
- Hosted numerous 50+ person hackathons, puzzlehunts, technical talks, and department sponsored roundtables.
- Mentor beginner hackers (at hacks and online) on new technologies, career opportunities, and how to survive CS.

Badger Game Network (BGN)

2013 - 2016

- Co-founder and overseer of UW - Madison's student organization dedicated to game development.
- Organized a ~100 person game jam with support from major local studios.

Honors & Awards

Scholarships and Academics

- 2016: UW - Madison Computer Science Department: 'Gold Brick' award for "unsung but critical tasks"
- 2015: International Game Developers Association (IGDA) GDC Scholarship:
1 of 18 scholars selected worldwide to attend the largest Game Developers Conference (GDC).
- 2015: UW - Madison: Dean's List





Hackathons

- 2014: BoilerMake @ Purdue: 2nd place overall out of 400+ hackers.
- 2013: hackMIT @ MIT: 'Best use of Weather Underground' & Boston Globe newspaper feature.
- 2012: facebook Hackathon @ UW - Madison: Honorable mention (Best Game).

Other Competitions

- 2014: NEST Software Competition @ UW - Madison: 2nd place overall & Wisconsin Idea Award
- 2013: Google Games Chicago: 3rd place overall & 1st place in puzzles; Youngest team to compete.
- 2013: NEST Software Competition @ UW - Madison: Winner of Wisconsin Idea Award

Things that excite me:

- Gardening • Outreach • Rabbits • Lego • Linguistics • Puzzles • ProjectEuler • hackernews • Hackathons •
 - Cognitive Science • Music/Raves • Interactive Narrative • Language Acquisition •  •  •  •  •
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