

# Gabriel Caniglia

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## EDUCATION

Northwestern University, GPA—3.84

Sep 2015—Jun 2019 (Expected)

**B.A. Computer Science and Cognitive Science, Segal Design Certificate**

**Relevant coursework:** Human-Computer Interaction, Data Visualization in Virtual Reality, Algorithms and Society, Design, Thinking, Doing (DTD), Industrial Design, Cognitive Psychology, Artificial Intelligence, Computational Linguistics, Data Structures and Data Management, Computer Systems

## WORK EXPERIENCE

**Marathon Data Visualization Intern**, Industrial Engineering Department

Jun 2017—Present

- ▶ Developing and deploying a NSF-funded dashboard system used by race officials at large-scale events such as the Chicago and Houston Marathons; allows for real-time monitoring of medical and runner info
- ▶ Helped transition system to a responsive web app deployed on the LAMP stack during summer 2017
- ▶ Rewrote and redesigned the dynamic course map display using the Mapbox GL JS API

**Technical Aide**, The Garage at Northwestern

Oct 2015—Present

- ▶ Designed and built the ~2,250 sq. ft. Makerspace and Virtual/Augmented Reality Lab during summer 2016, creating a dedicated space for hardware and VR/AR startups at Northwestern
- ▶ During the school year, maintain the space and online knowledge base, provide VR/AR demos to students and faculty, and assist with AV and IT

**Programming Lead**, Radio, TV, and Film Department

Nov 2016—Aug 2017

- ▶ Built an interactive art installation using Unity3D and C# with grant funding from the Undergraduate Research Assistant Program
- ▶ “You Are the Ocean” uses a neuroheadset to allow participants to modulate a projected ocean simulation with their brain waves
- ▶ Selected for exhibition at SIGGRAPH 2018 Art Gallery (Vancouver, BC), FILE 2018 (São Paulo, BR), Currents New Media 2018 (Santa Fe, NM), and CommFest 2018 (Evanston, IL); in review for additional exhibitions

**Research Assistant**, Computational Photography Lab

Nov 2015—Mar 2016

- ▶ Designed and constructed a calibration rig for lab testing
- ▶ Implemented a CNC machine design and wrote preliminary G-Code to test the rig
- ▶ Under direction of PhD candidate Nathan Matsuda and Dr. Oliver Cossairt

## AWARDS

- ▶ Finalist for 2018 INFORMS Innovative Applications in Analytics Award for work on Marathon Data Visualization; winner to be determined in April 2018
- ▶ Won awards at HackIllinois 2016 (University of Illinois) and Uncommon Hacks 2016 (University of Chicago)
- ▶ First place at the 2015 Chicago Maker Challenge, sponsored by Motorola Mobility Foundation

## PROJECTS

- ▶ Designed Northwestern-tailored time management app “Catnip,” ran user testing, and acted as client for a student development team through Segal Design Institute during 2016-2017 school year
- ▶ Researched and devised best practices for VR data visualizations at the Knight Lab, Northwestern’s media innovation lab, during winter 2017
- ▶ Designed and ran a user interface study for a Facebook News Feed fake news detection tool, spring 2017

## SKILLS

- ▶ C#, JavaScript, CSS, HTML, Unity3D, Mapbox GL JS API; *Familiar:* Python, Java, C, C++
- ▶ Adobe Photoshop, Adobe Illustrator, Microsoft Office suite, graphic design