

Justin Miller

Curriculum Vitae

EDUCATION

Marquette University, Milwaukee WI

May 2019

Bachelors of Science Degree in Computer Science

Minors in Mathematics and Entrepreneurship

- Cumulative GPA: 3.52/4.0
- Honors Program

TECHNICAL SKILLS

- **Programming Languages:** Java, C, Python, ARM Assembly, HTML, MatLab
- **Operating Systems:** Linux, XINU, Windows (XP, 7, 8, 10), Mac OS
- **Relevant Courses:** Operating Systems, Introduction to Computer Security, Data Structures

RESEARCH EXPERIENCE

Marquette Speech and Signal Processing Laboratory, Milwaukee, WI **Spring 2016-Present**

Undergraduate Research Assistant

- Collaborate with Dr. Johnson to implement the Kaldi toolkit, an open source software project for speech processing using artificial intelligence through deep neural networks and the Hidden Markov Model
- Research how software algorithms work and design experiments for ongoing research in the area of time-series based speech recognition

INDUSTRY EXPERIENCE

Marquette University, Milwaukee, WI

Fall 2015-Present

Teaching Assistant

- Work closely with professor to develop labs for freshman electrical and computer engineering students, along with providing assistance and guidance to students in lab
- Labs involve the use of Java and C programming languages to modify and control Roombas using Arduino software and hardware
- Independently designed a lab to control Roombas over a private network from a phone or computer

Marquette University, Milwaukee, WI

Spring 2015-Present

Website Developer

- Work with Marquette faculty to provide useful, relevant and easy to find content on all Marquette College of Engineering website pages
- Utilize opportunity to improve JavaScript and PHP coding skill set

J Miller Word Works, Savage, MN

June 2008-Present

Sole Proprietor

- Own and operate a website development and marketing firm working with small businesses to find their place on the world wide web
- Self-taught Android Application Development, HTML, CSS and JavaScript

AWARDS/RECOGNITION

Marquette University College of Engineering, Milwaukee, WI

Spring 2016

Undergraduate Research Grant

- Awarded grant to conduct summer research in artificial intelligence and deep neural networks in Marquette's Speech and Signal Processing Lab

Marquette University Hack-A-Thon, Milwaukee, WI

Fall 2014

- Won first place at a sponsored engineering product design competition hosted by Direct Supply
- Participated on team that designed and modeled smartAid, a smart hearing aid
- Worked with Michael Best and Friedrich Law Firm to pursue a patent

Eagle Rank from Boy Scouts of America Troop 331

Fall 2013

Eagle Scout

- Designed and organized project involving 40 volunteers painting the blacktop and playground of a local elementary school