Matthew Wang

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EDUCATION:

Northwestern University   Expected Graduation: June 2020
Bachelor of Science, Computer Engineering   Cumulative GPA: 3.80

POSITIONS/EXPERIENCE:

OriHD Inc.   (2017 June ~ 2017 September)
Software Engineering Intern
Designed and completed the official company website with HTML/CSS/PHP and worked on the Android mobile application in Java and its bluetooth/wireless compatibility with the OriHD SmartMask.

Northwestern University- McCormick Student Advisory Board (MSAB)   (2016 September~ Present)
Web Developer
Worked on the McCormick student website in HTML5, PHP, and CSS to create a friendly and accessible platform for communication between students and faculty in the McCormick School of Engineering.

COURSEWORK/SKILLS/PROJECTS:

Computer Hardware- VHDL, CAD, advanced digital logic design, digital signal processing, solid-state engineering, computer architecture, Arduino.
Computer Software- Java, Javascript, Matlab, C++, Python, PHP, HTML5, CSS, XML, DrRacket.

Mobile App Development- (Java, XML)
- Guardian Angel is an Android app that acts as a compiled interface to help users reach contacts via SMS to give info on current longitude/latitude with the press of a button. Other features include auto-navigation back home, updates your current location every 2 minutes via SMS...etc.
- OverGuide is an Android app that is a guide to the video game Overwatch. Application contains a database of articles, videos, character information, and a player web-search functionality that parses input to provide users with up-to-date information about their profile. (200+ Downloads)

Web Development- (HTML5, Javascript, CSS, PHP)
- **MSAB-** Worked on Northwestern's engineering board website; utilized PHP for a FormMail processor, Javascript for website response, HTML/CSS for user interface. (www.NUmsab.org)
- **OriHD-** Designed and completed the official company website for OriHD Inc. using HTML/CSS for user interface design and development. (www.OriHD.com)

Quadriplegic TV Remote- (Arduino and C++)
- Designed/built a remote for quadriplegic patients that uses capacitive sensors under the patient's chin connected to a microcontroller to change the channel by transmitting infrared signals to the TV. Completed first prototype for patients at the Ballard Rehabilitation Center in Chicago.

Facial Recognition Algorithm- (MATLAB)
- Created MatLab algorithm that take an image, converts it to grayscale, vectorizes the image data and compares the data to a database of vectorized image data for similarity.

Learn more at: www.linkedin.com/in/matthewwang2020
Personal Page: http://matthewwang2020.wixsite.com/professional