Maxwell J. Dulin  
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Professional Experience

**Assistant Researcher** • **Gonzaga University** • **2017 – Present**

Designed an algorithm of taking in a word then dividing it into its corresponding syllables automatically. Uses two machine learning algorithms: a branch of a Hidden Markov Model (HMM), known as the Viterbi algorithm alongside a Genetic Algorithm to optimize the HMM.

* 92.5% accurate with NIST as the gold standard.
* Awarded the best presentation at SIRC(Spokane Intercollegiate Research Conference).
* Collaborate with a classmate and Doctor Paul De Palma through the project.

Projects

**Dodgeball Website:**  
Built a website for the Gonzaga Dodgeball team for contact information, pictures and schedule usage in static HTML and CSS. Link: https://mdulin2.github.io/GonzagaDodgeball/Information.html   
**Malware Design:**Constructed an automated system that would be capable of capturing a computers clipboard for the designer’s benefit.

**Vulnerability Searching:**Found a vulnerability in the student website that would be able to give people access to anyone’s account.

**Othello A.I.:**A usable intelligence that a user can test his Othello skills against.

* Using heuristics and iterative searching, designed a top notch A.I. user.
* Competed and **won** a Gonzaga class single elimination tournament using this A.I.

• Object Oriented Design Patterns.   
• Database design and SQL.  
• Course work in computer security and networking.  
• Good understanding of all Windows OS’s and Linux OS.

Education

• Machine Learning techniques such as neural nets, HMM’s, genetic algorithms and more.  
• Background in calculus and linear algebra.  
• Python • C • C++ • SQL • Java • Assembly • HTML  
• Excellent public speaker.

• Experience with WIFI crackers, IDA, computer crackers, Wireshark and other tools.  
• Understanding of basic static and dynamic tools for analyzing malware.  
• Experience with analyzing security vulnerabilities in code.

Skills

• Class of 2019 at Gonzaga University • Computer Science Major • **3.65 accumulative GPA • 3.95 GPA in CS**

Outside the Classroom

• Officer of GUMAD(Gonzaga U. Makers and Developers • President of the Gonzaga U. Dodgeball Team  
• Organized and ran a wiffleball league for 10 years • Active baseball and basketball coach in the community