Jacob Dormuth

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**Education**

University of Southern California, Viterbi School of Engineering | Los Angeles, CA Graduated May 2020

* Bachelor of Science in Computer Science and Master’s in Electrical Engineering
* Honors: Trustee Scholar (Full Tuition Merit Scholarship), Dean’s List

**Experience**

**Software Engineer/Machine Learning Engineer,** *Intuit*May 2019 – Present

* Prototype SOTA machine learning intrusion detection algorithms and place into production
* Develop variety of tools/algorithms to automate and expedite Incident Response/Digital Forensic processes

**Researcher,** *USC Viterbi School of Engineering* January 2017-May 2020

* Paid research position in the Media Communications Lab under the direction of Professor Jay Kuo
* Developed neural networks to complete a variety of natural language processing and audio tasks

**Machine Learning Consultant** Jan 2019– Present

* Provide software engineering, machine learning, and data visualization support for various clients including Sony Music, Sony Pictures, Two Six Labs, Cisco, Netflix, and the Entertainment Technology Center at USC
* Specialize in audio signal processing, natural language processing, security engineering

**Founder,** *MuseTek* Jan 2019– Present

* Lead a team of five software developers to develop a machine learning app that formulates descriptive tags for audio files
* Featured in USC’s Center for AI and Society Project Showcase
* Demo link, <https://www.youtube.com/watch?v=9Gezpn0Cgu0>
* Github, <https://github.com/MuseTek>

**Machine Learning Research Intern,** Two Six LabsJun 2017 – Mar 2019

* First author on "Logical Segments in Source Code" published in the 31st International Conference on Software Engineering & Knowledge Engineering, <https://arxiv.org/abs/1907.08615>
* Published my work in a blog post for the company, <https://www.twosixlabs.com/intern-spotlight-discerning-logical-segments-source-code/>

**Co-founder, USC Center for Artificial Intelligence and Society**  Jan 2017-2020

* Developed a Machine Learning curriculum (http://caisplusplus.usc.edu/curriculum)
* Gathered support from industry/academia, secured over $10,000 worth of resources (gpus, computers, etc)
* Planned events/workshops

**Skillset**

* **CS:** Python, C++, Java, C, deep learning, nlp, audio, rust, machine learning, JUCE, VST, AU, keras, pytorch
* **Technical Tools:** Git, Bash, Logics Pro X, Ableton, Pro Tools
* **Audio:** Music Production, Mixing/Mastering