Willie B. McClinton III

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EDUCATION

University of South Florida	Tampa, FL
Bachelor of Science in Computer Science	Expected May 2020
GPA: 4.00	

RESEARCH/SCIENTIFIC EXPERIENCE

Research Experience for Undergraduate   Tampa, FL
Applying Machine Learning Techniques to Commercial Brain-Computer Interfaces   December 2017 - present
- Developed web applications to make BCI more available to the general public
- Classified brain data with high signal-to-noise ratio using modern techniques

Summer Undergraduate Research Fellowship at NIST   Gaithersburg, MD
Creating Ad-Hoc Event Kits for Multimedia Event Detection Evaluation   May 2017 - August 2017
- Parsed through and edited large video database with SQL
- Reduced scoring time complexity by implementing parallelization in the new Ruby/Rake evaluation scripts
- Ran past systems from previous MED evaluations

Research Experience for Undergraduate   Tampa, FL
Training Deep Neural Networks to Analyze Brain Tumors   December 2016 – March 2018
- Gathered and formatted brain scan segmentations using ImageJ to create training data
- Used Matlab for training data augmentation
- Created DCGANs for training data generation

Research Experience for Undergraduate   Tampa, FL
Quantify Intrinsic Molecular Motion Using SVMs   November 2016 - present
- Developed an understanding of Support Vector Machines and their applications.
- Created applications utilizing GROMACS to parse molecular simulations and Support Vector Machines to quantify their intrinsic motion

University of South Florida HHMI STEM Academy Program   Tampa , FL
Program Participant   August 2016
- Attended lectures and labs on basic skills needed for STEM careers

SKILLS

Languages: C (proficient), C++ (proficient), Java (proficient), Matlab (proficient), Python (proficient), Ruby (proficient), Bash (prior experience), Emacs Lisp (prior experience), and Rake (prior experience)

Software: Android Studio, Emacs, GROMACS, OpenCV libraries, OpenVibe, Pytorch, Tensorflow, React Native, and Visual Studios

HONORS & ACTIVITIES

ACM Member	March 2018 – present
National Society of Black Engineers	March 2018 – present
Society of Competitive Programmers	January 2018 – present
USF Honors Makerspace – Student Leader	August 2017 – present
IEEE – Computer Science Society	November 2016 - present
National Society of Colligate Scholars	August 2016 – present