

Willie B. McClinton III

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EDUCATION

University of South Florida
Bachelor of Science in Computer Science
GPA: 4.00

Tampa, FL
Expected May 2020

RESEARCH/SCIENTIFIC EXPERIENCE

Research Experience for Undergraduate

Applying Machine Learning Techniques to Commercial Brain-Computer Interfaces

Tampa, FL
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

Creating Ad-Hoc Event Kits for Multimedia Event Detection Evaluation

Gaithersburg, MD
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

Training Deep Neural Networks to Analyze Brain Tumors

Tampa, FL
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

Quantify Intrinsic Molecular Motion Using SVMs

Tampa, FL
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

Program Participant

Tampa, FL
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
National Society of Black Engineers
Society of Competitive Programmers
USF Honors Makerspace – Student Leader
IEEE – Computer Science Society
National Society of Colligate Scholars

March 2018 – present
March 2018 – present
January 2018 – present
August 2017 – present
November 2016 - present
August 2016 – present