

Ethan M. Bensman

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EDUCATION

Clemson University Honors College

GPA: 4.0/4.0

- *Bachelor of Science, Computer Science*
- *Minor, Biochemistry and Biology*

Graduation: May 2021

Stellenbosch University, Stellenbosch, Western Cape

Summer 2018

LEADERSHIP EXPERIENCE

Assistant Director at CUhackit

Spring 2018 – Present

- Oversee planning and direction of Clemson's campus-wide fall and spring hackathons
- Established Clemson's first "Hello World" freshman hackathon to teach and develop student skills in applied science (i.e. 3-D printing, coding, electrical engineering, etc.)

RELATED EXPERIENCE

Genetics Research in the Lab of Dr. Alex Feltus

Summer 2018-Present

- Optimizing genome storage and transfer with lossy compression of FPKM-GEM using Python and zfp to reduce sequencing time by around 50%

CERN Quarknet Internship with Dr. Mike Sokoloff

Summer 2016 – Fall 2016

- Isolated the mass of the positively-charged charmed lambda baryon for research
- Gained experience with C and C++ in the ROOT Framework in particle physics

INDEPENDENT PROJECTS

Tensorflow Data Analytics

Spring 2018-Present

- Built Python application with Tensorflow API to learn user-chosen color filtration of CIFAR image dataset minimizing feature loss
- Utilized Tensorflow to make prediction algorithm for NBA regular-season wins

OC Tweet Archiver

Summer 2018-Present

- Used Twitter's API and Python to make archiving script for all original-content tweets of any user

Yelp! Dataset Challenge

Fall 2017

- Cleaned word vectors in Python and passed them to Facebook's fastText API to perform tip classification with sentiment analysis on Palmetto Cluster supercomputer

HONORS AND AWARDS

University Innovation Fellow Candidate

Fall 2018 - Present

- Selected by university for candidacy to Stanford University's nationwide network of students actively promoting innovation

Clemson University National Scholar

Fall 2017 - Present

- One of eight students selected for Clemson's premier full tuition academic scholarship and enrichment program

SPECIAL SKILLS

Programming

- Proficient in Python, Java, C, C++, Javascript, PhantomJS, and HTML, Tensorflow, ARM

Design

- Experienced in Photoshop, AutoCAD, and Solidworks

ACTIVITIES AND INVOLVEMENT

IT Student Advisory Board

Fall 2017 – Present

- One of twelve appointed campus-wide voting members
- Manage the allocation of \$500,000 yearly to fund student technology projects

UNICEF

Fall 2017 – Present

- Volunteer at local schools and on-campus events to bring global citizenship awareness to the public