Ethan M. Bensman

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EDUCATION

Clemson University Honors College GPA: 4.0/4.0
- *Bachelor of Science, Computer Science* — Graduation: May 2021
- *Minor, Biochemistry and Biology*

Universiteit Stellenbosch, Stellenbosch, South Africa — Summer 2018
- *Global Health and Science Studies program*

RELATED EXPERIENCE

Bioinformatics/Computing Researcher, *Clemson University* — Summer 2018-Present
- Optimized data storage and transfer with lossy compression using Python—reduced sequencing time by 20%
- Used linux commands and bash scripting to adjust workflows

iOS App Developer, *TravelTogether* — Fall 2018-Present
- Coded travel-based Venmo alternative for CECAS Spark Pitch Competition
- Interfaced with Google Firebase and Amazon Web Services via Swift and Python

Software Developer, *APMigrater* — Winter 2018
- Adapted Spotify API for song-migrating application compatible with Apple Music, Google Play
- Scraped songs from Google Play Music web player with Python and Selenium

Backend Developer, *VandyHacks Empathy Bot* — Fall 2018
- Used Facebook's FastText and Python with Twitter's API to make responsive and "empathetic" Twitter application
- Implemented TextBlob for faster filtration of sensitive tweets

Tensorflow Data Projects, *Personal* — Spring 2018-Fall 2018
- Built Python application with Tensorflow API to learn user-chosen color filtration of CIFAR image dataset minimizing feature loss
- Formed prediction algorithm for NBA regular-season wins using Tensorflow and Python

Backend Developer, *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

Data Intern, *CERN Computational Physics Program* — Summer 2016 **–** Fall 2016
- Isolated the mass of the positively-charged charmed lambda baryon using C++
- Manipulated CERN particle collider data with TTree and Objective C in ROOT Framework

LEADERSHIP EXPERIENCE

Assistant Director, *CUhackit* — Spring 2018 – Present
- Oversee planning and direction of Clemson's nationwide 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.)

HONORS AND AWARDS

University Innovation Fellow, *Stanford University* — Fall 2018 - Present
- One of four students selected by Clemson and accepted by Stanford University into worldwide 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++, Linux, Bash, Data Structures, Algorithms
- Experienced in Tensorflow, Swift, Restful APIs, ARM, HTML, CSS