

Ethan Bensman

Computer Science Student

Personal Info

GPA
4.0

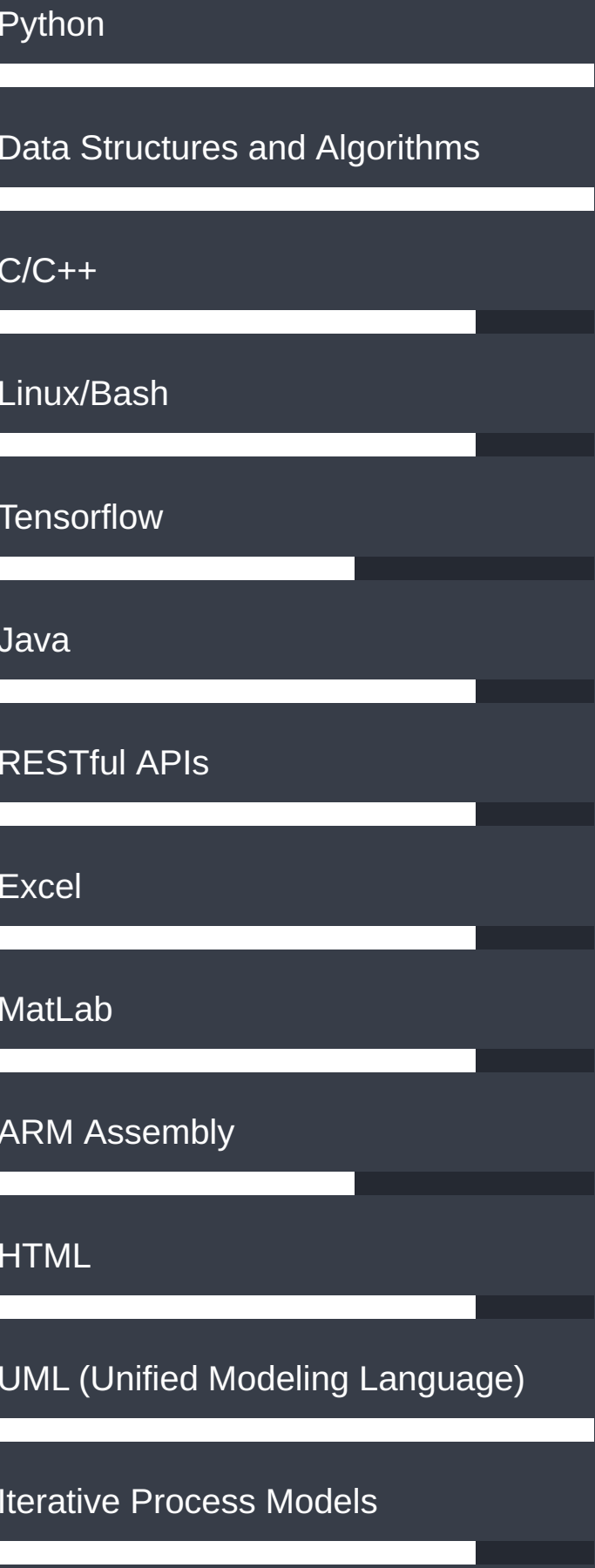
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Skills



Education

- 2017-08 - 2020-12

Clemson University
 - GPA: 4.0
 - Degree: Computer Science, B.S. and Genetics, Minor
 - Honors College, National Scholars Program
- 2018-06 - 2018-08

Universiteit Stellenbosch
 - Global Health and Science Studies program

Experience

- 2018-06 - present

Undergraduate Computing and Bioinformatics Researcher

Clemson University

 - Optimizing genome storage and transfer with lossy compression of FPKM-GEM using Python and zfp to reduce sequencing time by around 50%
 - Used bash scripting to maneuver and adjust workflows as needed
- 2016-06 - 2016-08

Computational Physics Intern

University of Cincinnati

 - Programmed in C++ to isolate the mass of the positively-charged charmed lambda baryon
 - Used TTree and Objective C in ROOT Framework for CERN particle collider’s data management and manipulation
- 2018-10 - present

Travel Together Developer
 - Coded travel-based competitor app to Venmo
 - Managed development in Swift and Python to interface with Apple Pay API
- 2018-05 - 2018-08

Tensorflow Data Projects
 - 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
 - Gained experience with machine learning
- 2018-10 - present

API Projects
 - Learned Twitter’s API and used FastText with Python to make archiving and “empathetic” Twitter application
 - Utilized Spotify API and wrote a JSON-reading Python application to migrate all songs from Google Play Music Library to Spotify
- 2017-09 - 2017-12

Yelp! Dataset Challenge
 - Cleaned word vectors in Python and passed them to Facebook’s fastText API to perform tip classification with sentiment analysis on Palmetto Cluster supercomputer
- 2018-03 - present

Assistant Director

CUhackit

 - Oversee planning and direction of Clemson’s 200+ participant hackathon
 - Coordinate with sponsors like AWS and Siemens as well as participants from all over North America
 - 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

- 2017-08 - 2020-12

Clemson National Scholar
 - One of eight students selected for Clemson’s premier full tuition academic scholarship and enrichment program
- 2018-11 - present

University Innovation Fellow
 - One of four students selected by Clemson for candidacy to Stanford University’s nationwide network of students actively promoting innovation