

Ethan Mines

elmines325@gmail.com | (850) 625-0544
linkedin.com/in/ethan-mines | github.com/elmines

Education, The University of Alabama

B.S. in Computer Science

GPA: 4.0/4.0, May 2020

Accelerated M.S. in Computer Science

GPA: 4.0/4.0, May 2021

Minors: Spanish, Mathematics, Randall Research Scholars

Relevant Coursework: Algorithms, High-Performance Computing, Nonlinear Optimization

Study Abroad: Spanish immersion in El Escorial, Spain

May – June 2017

Research Experience

Undergraduate Researcher, UA Human-Technology Interaction Lab, Tuscaloosa, AL August 2018 – Present

- Train supervised learning models from **EEG** data in **TensorFlow** to distinguish reactions to expected and unexpected darkenings of phone screen
- Prototype application in **React Native** for user-study
- Develop **Node.js** server processing data from phone application
- Present poster at *The Proceedings of the 2019 ACM Southeast Conference*

REU Researcher, Charlotte Visualization Center, Charlotte, NC

May – July 2018

- Train and evaluate the effectiveness of six different word vector representations for chatbots in **TensorFlow**
- Provide full documentation for future lab members using **Sphinx**

Undergraduate Researcher, UA Department of Computer Science, Tuscaloosa, AL August 2017 – May 2018

- Write optimization algorithm in **Python** to determine ideal vocabulary size for neural machine translation for five language pairs

Hackathon Projects

Darty, AuburnHacks

February 2019

- Segment dartboard into regions with **OpenCV** for automated scoring
- Coordinate team members from three different academic majors

RedZone, VandyHacks IV

November 2017

- Program **CNTK** machine learning model for pinpointing areas of high crime

RateMySchedule, Magic City Hacks

August 2017

- Develop **Node.js** app for parsing RateMyProfessors.com to evaluate class schedule

Multiathlete Timer, VandyHacks III

November 2016

- Write chronograph **Android** app for timing multiple runners, swimmers, etc.

Leadership Experience

President, Association for Computing Machinery (ACM)

January 2019 – Present

- Organize networking events, hackathon trips, and technical workshops
- Improve engagement with freshmen and sophomores via class representatives program

Freshman Mentor, Randall Research Scholars

August 2018 – Present

- Aid freshman student in transitioning to a rigorous research program

Secretary, Association for Computing Machinery

January – December 2018

- Improve club communications with funnier emails augmented with xkcd comics

Awards and Honors

Upsilon Pi Epsilon

April 2018

- One of ten students selected for induction to local chapter of CS honor society

Randall Research Scholars Outstanding Sophomore Award

April 2018

- One of six students chosen for accomplishments in research and on campus

National Merit Scholar

March 2016

- One of approximately 7,500 students nationwide to receive award for academic achievement