

## Ethan Mines

<https://www.linkedin.com/in/ethan-mines>

<https://github.com/elmines>

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### Education

B.S. in Computer Science, The University of Alabama

May 2020

**Minors:** Spanish, Mathematics, Randall Research Scholars

**Distinctions:** Accelerated Master's Program, Honors College

**Relevant Coursework:** Computer Algorithms, Data Structures and Algorithms, Linear Algebra, Discrete Mathematics

**GPA:** 4.0/4.0

### Relevant Experience

**Undergraduate Researcher**, UA Human-Technology Interaction Lab, Tuscaloosa, AL

August 2018 – Present

- Develop reinforcement learning A.I. model in **TensorFlow** to reduce annoyances to smartphone users, using **EEG** (electroencephalogram) signals from the brain as input
- Prototype **Android** application in **React Native** for user-study

**REU Researcher**, Charlotte Visualization Center, Charlotte, NC

May 2018 – July 2018

- Train and evaluate the effectiveness of six different word vector representations for chatbots in **TensorFlow**
- Write paper pending acceptance in *The Thirty-Third AAAI Conference on Artificial Intelligence*
- 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

### Projects

**Chocoholics Anonymous**, CS200 (Software Engineering)

January – April 2018

- Lead team of five students to develop clinical POS application in **Java**
- Fully document project using **UML** methodology

**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.

### Extracurricular Experience

**Secretary**, Association for Computing Machinery (ACM)

December 2017 – Present

- Write **announcement emails so funny** even non-CS students read them
- Organize networking events, game nights, and technical workshops
- Collaborate with department head and college dean to obtain new undergraduate lab

**Freshman Mentor**, Randall Research Scholars

August 2018 – Present

- Aid freshman student in transitioning to a rigorous research program

**Study-Abroad Participant**, UA in Spain

May – June 2017

- Continually speak Spanish while studying local culture in small town outside Madrid

### Awards and Honors

**Upsilon Pi Epsilon**

April 2018

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

**National Merit Scholar**

March 2016

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