Ethan Mines

https://www.linkedin.com/in/ethan-mines
https://github.com/elmines

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

Work 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