li.andrew.hua@gmail.com 703-457-0020 https://friendlyai.github.io/

EDUCATION

• University of Virginia (2019 - 2023)

3.98 / 4.00

- o B.S. Computer Science (Expected May 2023)
- o B.A. Economics (Expected May 2023)
- Relevant coursework:
 - * CS 2150 Program and Data Representation, CS 4710 Artificial Intelligence

• Oakton High School (2015 - 2019)

4.60 / 4.00

EXPERIENCE

• Data Science Intern / JHU Applied Physics Laboratory / Laurel, MD June 2020 - August 2020

- Developed MySQL database for unified access to COVID-19 data from multiple sources to aid the JHU APL's COVID-19 modeling effort
- Proposed and led a COVID-10 sentiment analysis project to examine public opinion shifts in specific areas like mask-wearing and shutdowns and how it may affect or be affected by state-level public policy
- Presented results to a team of engineers across the APL network and work was scouted for further implementation
 with the APL's ESSENCE health surveillance tool

• Intern / Lepton Global / Vienna, VA

May 2019 - August 2019

- o Developed SQL databases and front-end software in MS Access to log network activity and outages
- Built a custom desktop application to create, archive, and synchronize customer quotes and sales across company computers
- Communicated with business partners and government agencies to secure procurement and service contracts

Extracurriculars

• Competitor / UVA Moot Court

Sept 2019 - Present

- Wrote and argued complex Constitutional law cases to panels of judges
- o Only team from UVA to break into the round of 16 at Liberty University 2019

• Team Captain / Team America Rocketry Challenge

Sept 2016 - June 2019

- Led school rocketry team in designing, building, and flying model rockets up to 1000 ft. while carrying electronics
- Placed 14th in national rocketry competition finals

Projects

• ctaff + rizumu

- ctaff: Developed algorithms to detect rhythm and beats in music using Fourier transforms and audio signal processing
- rizumu: Built a fully-featured cross-platform rhythm game using ctaff that allows automatic generation of beat maps for any song

• Pystation

- o Built a public internet radio station and lightweight DJ software using the Shout protocol
- Features cross-platform usability and powerful controls for DJs, including a 24/7 offline bot streamer

• Toxical

- Trained a neural network to automatically detect and moderate online conversations on platforms like Twitter and Discord
- Developed a custom sentiment analysis algorithm that detects toxic comments with 80% accuracy

PROGRAMMING SKILLS

• Python, Java, C/C++, HTML/CSS, JavaScript, SQL, TensorFlow, Git