Edward Sun

www.linkedin.com/in/esun

Email : edwsun@umich.edu

Mobile: 571-606-4132

Education

- **University of Michigan** — Ann Arbor, MI
  Computer Science; Class of 2021; GPA: 4.0 — *Sept 2018 – Present*
- **Thomas Jefferson High School for Science and Technology** — Alexandria, VA
  Computational Physics Research; ACT: 35; GPA: 4.4 — *Sept 2014 – June. 2018*

Experience

- **CROMA Lab** — University of Michigan
  Research Assistant — *Dec 2018 - Present*
  - **TalkToMe**: Created a new way of implementing system testing by using non-expert crowdsourced workers to write diverse dialog through word clustering to build more comprehensive task-oriented dialog systems.
- **Michigan Hackers** — University of Michigan
  Core Team Lead — *Nov 2018 - Present*
  - **React Native**: Launched the React Native team to teach programmers how to build cross-platform mobile apps for iOS and Android with JavaScript and Expo.
- **Nanjing University** — Nanjing, China
  Research Intern — *June 2017 - Aug 2017*
  - **Gemo: Real-Time Crowd Analytics with Emotion Recognition on Mobile Platforms**:
    Built a mobile platform that performs real-time group emotion recognition and facial detection for crowd analytics. Achieved an accuracy 21.17% higher than baseline on test datasets and speeds 30 times faster than VGG-Face LSTM models.
  - **Awards**: Siemens Competition Semifinalist
    6th Place ACM International Conference on Multimodal Interaction Grand Challenge

Projects

- **MHacks 11** — Ann Arbor, MI
  University of Michigan Hackathon — *Oct 2018 - Oct 2018*
  - **StockWise**: Applied machine learning, sentiment analysis, web scraping, and web design to create a stock market assistant that predicted short-term price movement through TensorFlow and Google Cloud Platform.
  - **Awards**: 1st Place Goldman Sachs
- **MIT Battlecode** — Cambridge, MA
  High School Tournament — *Jan 2018 - Feb 2018*
  - **Team ⌊ ⌉**: Wrote resource management, pathfinding, combat strategy, and network communication algorithms in Python to compete in a real-time strategy challenge that combines battle strategy, software engineering, and artificial intelligence. Invited to attend Finalists' Celebration at MIT.
  - **Awards**: Quarterfinalist
- **Spintronics** — Alexandria, VA
  Summer Research — *June 2016 - Aug 2016*
  - **A New Spintronics Design with Hydrogenated Transition Metal-Doped Phosphorene**:
    Discovered new spintronics materials by hydrogenation of transition metal-doped phosphorene. Hydrogenated (V, Cr, Mn)-doped phosphorene.
  - **Awards**: Siemens Competition Semifinalist
    1st Place, Fairfax County Regional Science Fair, TJHSST Science Fair

Awards

- **Siemens Competition Semifinalist**: 2016, 2017
- **National AP Scholar**: 2018
- **USA Computer Olympiad Gold Division**: 2017
- **AIME Qualifier**: 2015 - 2017