

## EDUCATION

**University of Maryland, College Park**

B.S. Computer Science, B.S. Mathematics. GPA 3.87

Expected May 2021

College Park, MD

## SKILLS

- **Languages:** Python, Java, SQL, C, R, Ruby, Rust, Matlab.
- **CodeSignal** certified score: 827 / 850.

## EXPERIENCE AND SELECTED PROJECTS

**Team AIMAR** (Gemstone Honors College, College Park, MD)

**2017 - 2021**

- Prototyping an Artificially Intelligent Medical Assistant Robot capable of autonomous data collection/analysis, navigation, and human interaction.
- Using Flask, Robot OS, Mycroft.ai, and Python statistical/deep learning libraries.

**Research Intern** (MITH, College Park, MD)

**Jan - May 2020**

- Improving the Enhancing Music Notation Addressability (EMA) API.

**SDE Intern** (Amazon Web Services, Herndon, VA)

**Jun - Aug 2019**

- Worked on CloudFront Signer, a web service that limits access of public AWS CloudFront domains to authorized Amazon identities.
- Presented final product to multiple teams, developers, and managers.

**Human Gait Recognition** (Python)

- Extracts gait features of treadmill videos from the OU-ISIR Gait Database.
- Matches a testing-training set of 34 subjects with 90% accuracy.

**Maryland Cemetery Analysis** (R)

- Scrapes and cleans 70,000+ birth/death date entries from interment.net.
- Analyzes difference in life expectancy between Maryland counties and between pre/post-1950 populations; finds statistically significant differences for both.

## OTHER EXPERIENCE

**Teaching Assistant**

**Aug 2018 - May 2019**

- Held office hours, taught discussion sections, and graded assignments for:
  - CMSC216: C, UNIX, and Assembly.
  - CMSC132: Java and Object-Oriented Programming.

**Junior Officer** (UMCP Taiwanese American Student Assn.)

**Jan 2018 - May 2019**

- Worked with TASA board to organize and facilitate cultural events.