

Matthew Shu

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Education

Yale University

Prospective Computer Science and Sociology Double Major

Expected 2021 - 2025

Montgomery Blair High School

Science, Mathematics, and Computer Science Magnet Program

2016 - 2020

Experience

University of Maryland at College Park

Research Intern under Jordan Boyd-Graber and Shi Feng

NLP, FastAPI, Vue.JS

January 2019 - Present

- Developing [KAR³L](#) study to improve flashcard scheduling with machine learning: in submission, NeurIPS 2021
- Investigating bias in question answering systems through ambiguous questions: in progress, EMNLP 2021 MRQA Workshop
- Coordinating 2021 [QANTA](#) question answering dataset update

Montgomery Blair High School

Curriculum Writer for Analysis of Equity in STEM Class

Sociology of Education, Teaching

January 2021 - Present

- Created course outline and developing lessons about topics such as bias in AI for class to be taught in Spring 2022

Technaplex

iOS Developer and Co-Founder, Business Partnership

Swift, Fastlane

June 2018 - Present

- Coordinated [QuizDB for iOS](#) development, a searchable quizbowl question database popular among quizbowl (trivia) players

Yale Machine Learning: Club Board Member

December 2020 - Present

Phoenix Scholars: Low-Income and First-Generation Student Mentor

September 2020 - Present

Negative Space Oral History Project: Editing Head and Website Manager

September 2020 - Present

Silverchips Online Newspaper: Lead Developer of Django site

September 2019 - May 2020

Blair High School Programming I with Java: Teaching Assistant

Fall 2019

Chinese American Parents and Students Association: K-12th Grade Tutor

September 2015 - May 2020

Projects

Flashcard Adder

A Better Interface for Creating Flashcards, Individual

Swift, Fastlane

Fall 2020 - Present

- Conceived and built app providing a custom interface and action extension for adding flashcards into AnkiMobile Flashcards.

Mindful.ly

Promoting Conscientious Work and Play, Team

Swift, Firebase

Fall 2020

- Formulated idea and led development for simplified time tracker: [IvyHacks 2020](#) Best Remote Education and Work Hack

Maskif.ai

Masks are the Key for Entry, Team

Swift, AVFoundation

Fall 2020

- Developed iOS client for smart lock app using computer vision to detect mask-wearing: [YHack V. 2020](#) Overall Prize

Awards

Hadden Scholar: Renewable \$4,000 nation-wide scholarship awarded by the Youth Foundation

2020

Lockheed Martin Cyber Quest: 1st Place (Regional), 3rd Place (International)

2019

Thai National Science & Technology Youth Science Ambassador: Awarded by the D.C Thai Embassy

2017

Skills

Human Languages: English (Native), Chinese (Heritage Speaker, ~HSK4), Thai (Spoken, Elementary Proficiency)

Tools: Swift, Python, PostgreSQL, FastAPI, SQLAlchemy, Java, CommonLisp, HTML/CSS/Javascript, Git