

# Matthew Shu

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## Education

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### Yale University

*Prospective Data Science & Statistics Major, Currently on Gap Year*

*Expected 2021 - 2025*

### Montgomery Blair High School

*Science, Mathematics, and Computer Science Magnet Program*

*2016 - 2020*

## Experience

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### University of Maryland at College Park

*Research Intern under Jordan Boyd-Graber and Shi Feng*

**NLP, FastAPI, Vue.JS**

*January 2019 - Present*

- Developing [KAR<sup>3</sup>L](#) to improve flashcard recommendation and scheduling algorithms using machine learning.
- Running study of over 500+ users at <https://karl.qanta.org/>

### Technaplex

*iOS Developer and Co-Founder, Business Partnership*

**Swift**

*June 2018 - Present*

- Leading development of a document-based app for reading ePub ebooks
- Coordinated [QuizDB for iOS](#) development, a searchable quizbowl question database popular among quizbowl (trivia) players

**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*

**Montgomery Blair High School:** Programming I with Java Teaching Assistant

*Fall 2019*

**Carnegie Institute Geophysical Lab:** Research Intern under Timothy Strobel

*Summer 2018*

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

*September 2015 - May 2020*

## Projects

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### 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*

- Best Remote Education and Work Hack at [IvyHacks](#)
- Formulated project idea, led design and development

### Maskif.ai

*Masks are the Key for Entry, Team*

**Swift, AVFoundation**

*Fall 2020*

- Overall Prize at [YHack V. 2020](#)
- Developed iOS client app that works with AVFoundation to capture video frames

### QuizDB for iOS

*Searchable Quizbowl Question Database, Technaplex*

**Swift, Firebase**

*2018 - Present*

- 60+ reviews and 1000+ downloads

## Awards

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**Hadden Scholar:** Renewable \$2,500 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

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**Human Languages:** English (Native), Chinese (Spoken), Thai (Spoken, Elementary Proficiency)

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