

# Alex L. Yu

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## EDUCATION

**University of Virginia, Charlottesville, VA**

Aug. 2020 – Aug. 2024

B.A. Computer Science, Intended B.S. Commerce (IT & Management)

- GPA: 3.95

**Thomas Jefferson High School for Science and Technology, Alexandria, VA**

May 2020

High School Diploma

- GPA: Weighted: 4.49, Unweighted: 3.93 | SAT: 1540 | SAT II Math: 800

## WORK EXPERIENCE

**Leidos Inc., Systems Engineering Intern**

Vienna, VA | Jun. 2021 – Aug. 2021

- Refreshed architectural diagrams using MS Visio as part of the Engineering and DOD Healthcare Management System Modernization (DHMSM) teams
- Completed Security Technical Implementation Guide (STIG) checklists on PostgreSQL database running on in-house application server and RHEL 7
- Automated MS Excel spreadsheet updates by writing Python script using openpyxl and Pandas libraries

**Storage Scholars LLC, Campus Co-Founder**

Charlottesville, VA | Mar. 2021 – Present

- Co-founded a branch of Storage Scholars at the UVA campus, a storage service by students for students
- Launched a digital marketing campaign as well as utilized traditional marketing techniques to acquire over 500 new accounts (~20% conversion rate to paid customers)
- Oversaw a team of 20 workers to carry out the logistical operations of storage and delivery of over 100 paid customers, generating over \$35,000 in revenue during the pilot year

## EXTRACURRICULAR ACTIVITIES

**Alpha Kappa Psi (AKΨ), Brother - Pledge Class Secretary**

Charlottesville, VA | Sep. 2020 – Present

- Pledged for the largest professional business fraternity, focusing on professional development, and learning about accounting, consulting, stock pitches, and DCF models among other business related topics
- Nominated by pledge class of 22 people to carry out secretarial duties such as taking notes and coordinating times for weekly workshops and assignments, and serving as the medium of communication between brothers and pledges for scheduling

**Student Entrepreneurs for Economic Development (SEED), Consultant**

Charlottesville, VA | Sep. 2020 – Present

- Performed pro-bono work through a university affiliated organization to assist NGOs by providing consulting services to identify cost and operational efficiencies to boost performance
- Worked as a consultant on a team partnered with the food bank, On Reserve, to develop strategies to increase food yield and number of partnered restaurants

**AI Powered Symptom Checker/Medication Evaluator** (see [GitHub](#))

Alexandria, VA | Sep. 2019 – Mar. 2020

- Utilized Pandas library to collect data on diseases and their corresponding symptoms to create a useable data frame object
- Trained a machine learning model to assess the percent match with a disease or condition given the symptoms, and later implemented a dynamic Flask web application using Python and Javascript
- Incorporated natural language processing model to group similar text reviews on medications to create a content based recommendation system and suggest optimal medication for certain conditions

**Predicting Concussions in NFL Players** (see [GitHub](#))

Cambridge, MA | Jul. 2019 - Aug. 2019

- Utilized the Pandas library to clean and scrape demographics and medical history data from online datasets
- Trained a logistic regression model, support vector machine model, and decision tree using the Sklearn library to assess future re-concussion risk of NFL players at a 75% accuracy level

## ADDITIONAL INFORMATION

**Programming and Design Languages:** Python, Java, C++, Javascript, HTML, SQL, CSS

**Certifications:** IBM Data Science Professional Certificate (Dec 2020), Excel Skills for Business Specialization (Dec. 2020)

**Awards:** Frank-a-Thon Public Policy Competition: 1st, National AP Scholar, National Spanish Exam: Gold, 2nd Team All-Region Basketball

**Interests:** Coaching and playing basketball, Poker, Calisthenics, Rubik's cubing