

## Duy Ha

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### EDUCATION

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#### Rice University

Computer Science and Electrical Engineer Double Major

Graduation Date: May 2024 (Expected)

#### Northeast Lakeview College

Associate of Liberal Arts

Graduation Date: May 2020

GPA: 4.0

#### Judson Early College Academy

Advanced Track: College Pre-Calculus to Calculus II

Valedictorian

GPA: 4.0

Graduation Date: May 2020

### WORK EXPERIENCE

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#### Mathnasium of Converse, *Part-time Employment*

May 2019-Aug. 2020

- +Instructed over 100 students with mathematical comprehension and application
- +Improved students' performance in their math classes by 20%; standardized test scores by 30%

#### Tech Skills on Wheels, *IT Summer Internship*

Jun-Aug. 2019

- +Developed over 10 STEM-related lesson plans to teach to over 20 kids from impoverished areas
- +Delivered technological aid and STEM education to households with less than \$25,000 income
- +Mentored students participating in NASA's Apollo Next Giant Leap Student (ANGLeS) robotics challenge

### TECHNICAL EXPERIENCE/EDUCATION

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#### Team IV League; Portable IV Stand, *Engineering Project*

Aug-Dec. 2020

- +Tasked with constructing a portable IV stand for Hospital de Amor, Brazil's most advanced oncological hospital
- +Design features the spatial efficiency of a 55 x 7.5 x 12.5 cm briefcase while meeting client's constraints
- +Team lead for the design block for a spring-expansion mechanism for the stand's shaft

#### Rice Emerging Scholars Program, *6 weeks STEM Enrichment Program*

Jun-Aug. 2020

- +Coding Project: Created a complex simulation of a zombie apocalypse in Python using graphs

#### Google CSSI, *STEM Enrichment Program*

Jun-Aug. 2020

- +Completed the Coursera's Algorithmic Toolbox course from UC San Diego within 2 weeks

#### MIT's LLCipher, *Cybersecurity Workshop*

Aug 2019

- +30 nationwide students were to attend competitive cybersecurity workshop taught by MIT professors

#### Trinity University's SoHacks, *Hackathon*

Aug 2019

- +Designed a secured software with user interface in Python to encrypt and decrypt computer files via password

### Involvement

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#### Rice Eclipse Rocketry Club *2020-Present*

- +Research and develop hybrid rocket engines and compete in Spaceport America Cup

#### Rice Computer Science Club *2020-Present*

- +Networking community organization with mentors and fellow CS peers

#### Vietnamese Student Association (Rice) *2020-Present*

- +Representing Vietnamese culture and awareness at Rice campus

#### FIRST Tech Challenge *2016-2020*

- +2017-2020 Assistant Lead Programmer
- +Implemented coding algorithm that led our team to place Top 5 in the Central-Coastal Texas Regionals
- +Team received several awards every year including 2 Inspire Awards (highest distinction achievable in FIRST)

#### Class Officer *Vice President, 2018-2019*

- +Promoted large-scale school events and raised attendances by 40%

#### Texas A&M SPARK! Engineering Challenge *2016-2018*

- +2017-2018 Team Lead
- +Collaborated with three other members to construct a hydraulic press (2017) and a Stirling engine (2018)

### AWARDS

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#### The Gates Scholarship *2020*

- +Full-ride scholarship awarded to 300 nationwide applicants; 50% of recipients attend Top 10 universities

#### APIA Scholar Finalist *2020*

- +Finalist applicant for \$40,000 scholarship awarded to underserved Asian and Pacific Islander Americans

#### QuestBridge National College Match *2019*

- +Admitted to Rice University with full-ride scholarship as a low-income student

#### TexPREP Prefreshman Engineering Program Honors *2014-2017*

- +Honors recognition for extensive engineering summer program; received St. Mary's University scholarship \$30,000

#### FIRST Tech Challenge Awards

- +**Inspire Award** (2018, 2019) Team is an inspiration to other teams and demonstrates gracious professionalism
- +**Think Award** (2016, 2019, 2020) Best robotics documentation and quality of high-efficiency mechanism
- +**Design Award** (2016, 2018) Cohesive and effective design