

# DUY D PHAM

E: duyphamm228@gmail.com

L: [linkedin.com/in/duypham228](https://www.linkedin.com/in/duypham228)

P: 713.854.4886

G: [github.com/duypham228](https://github.com/duypham228)

## EDUCATION

TEXAS A&M UNIVERSITY  
COLLEGE STATION, TX, USA

*B.S Computer Science, Minor in Electrical Engineering*

AUG 2018 - MAY 2022

Relevant Courses: Software Engineering, Operating System, Analysis of Data Structures and Algorithms, Machine Learning.

## EXPERIENCES

TEXAS A&M UNIVERSITY  
HPRC

*High Performance Computing Research Assistant* (SLURM, Linux, Bash) APR 2021 - PRESENT

- ◆ Manage research expenses by creating a Flask App called Research Cloud Bazaar, which automatically provide a cost estimates of mapping on-prem workload to cloud instances (e.g. comparing utilization costs between running a workload of 1500GB memory using 30 nodes 300 cores on-prem and 648 vCPU on cloud instances)
- ◆ Enhanced user interaction with utilization of clusters, status job queue, auto-generated job composer by building an OnDemand Dashboard for supercomputers at HPRC.

## LEADERSHIP

TEXAS A&M UNIVERSITY  
PHYSICS

*Laboratory Instructor* (Python; Arduino; DAQ)

SEP 2019 - MAY 2020

- ◆ Provided support and guidance for second-year engineering students learning Python during Electricity and Magnetism laboratory periods.

TEXAS A&M UNIVERSITY  
MATHEMATICS

*Undergraduate Teaching Fellow*

JAN 2019 - NOV 2019

- ◆ Tutored students on subject of Engineering Calculus I and II.
- ◆ Managed class logistics and grading homework assignments.

## PROJECTS

### [SMART EYES](#)

*Team Project Lead - Tamuhack 2021* (Python, Twilio API, Node.js)

JAN 2021

- ◆ Created a security camera system for detecting stranger versus family member using face detection and machine learning.
- ◆ Build an automatic text message for notification using Twilio API.

### [DISCORD WEATHER BOT](#)

*Team Project Lead* (Node.js, JavaScript, API, Surge, Heroku)

DEC 2020

- ◆ Automated bot for Discord server to parse user command and flags then return weather report, week forecast visual chart, and air quality for specific request city using public API.

### [BAR NONE CITATION](#)

*Web Developer* (Google App Script, HTML, CSS)

OCT 2020

- ◆ Created an automatic add-on for Google Doc to cite legal documents by searching court data for given cases and format with specific types based on Rules, Cases, Statues.

### [SAW](#)

Simplifying Adventure Works

*Application Developer* (Java, Docker, JDBC, MySQL)

SEP 2020

- ◆ Created an GUI interface for easier interaction with company database using Java Swing.
- ◆ Designed a dashboard for better visualization of database.

### [GET A QUOTES](#)

*3rd Winner - Tamuhack 2020* (Python, Machine Learning)

JAN 2020

- ◆ Compared the accuracy and training time of 3 Machine Learning Algorithms: Logistic Regression; Random Forest and XGB on the US\_accidents database to find an efficient one.
- ◆ Used trained model to predict severity of the accident based on location, time, driver age to give a better insurance quota.

## AWARDS & CERTIFICATION

*Machine Learning*

- ◆ NVIDIA DLI Deep Learning for computer Vision.
- ◆ Won 3rd place at TAMUHACK2020

*Web Development*

- ◆ LinkedIn Learning Certificate for HTML, CSS, JavaScript..

*Mentor and Counsellor*

- ◆ Taught a session in Summer Camp on topic of AWS Cloud and Flask App.
- ◆ Mentored groups of student to design competitive poster on topic of Cybersecurity and Data Science.



[duypham228.github.io](https://duypham228.github.io)