DUY D PHAM

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EDUCATION

Texas A&M University, College Station, Texas   Expected May 2022
Bachelor of Science in *Computer Science*, Minor in *Electrical Engineering*

Relevant Courses: Analysis of Data Structures and Algorithms, Computer Architecture, Database Management, Machine Learning, Micro-computer System, Operating System, Software Engineering (Graduate Level), Signals and Systems

SKILLS & CERTIFICATE

Programming Languages: C/C++, Python, Java
Technical Skills: Flask, Django, HTML/CSS, JavaScript, MySQL, Node.js, React.js, SwiftUI, Bash Script, Linux, API, Docker, Google App Script, AWS Cloud, Heroku
Certificates:
- JPMorgan Software Engineering Virtual Experience
- NVIDIA DLI Deep Learning for Computer Vision
- LinkedIn Certificates for JavaScript, HTML, CSS

EXPERIENCES

High Performance Research Computing, Texas A&M University   April 2021 - Present
Research Assistant
- Help reduce research expenses by creating and managed the Research Cloud Bazaar web app (**Flask**), which provides a quote for cloud services by mapping an on-prem workload to a cloud service instance using **Docker**
- Developed analytics tools, interactive features, and an automatic job composer for the app's dashboard that helps enhance user interactions with clusters using **Ruby**

TEALE AI, Graduate Course Project with Teale Company   March 2021 - May 2021
Software Engineer
- Collaborated on an end-to-end cloud-based pipeline which includes a web application (**Django**) for users to upload videos to the Teale server, a deep learning video processing & classifier model, and a database (**AWS S3** bucket) to store the result

Department of Mathematics, Texas A&M University   January 2019 - November 2019
Undergraduate Teaching Fellow
- Tutored students Engineering Calculus I and II, managed class logistics, and graded homework assignments

PROJECTS

Smart Eyes   January 2021
Team Project Lead - TAMUHACK 2021   (Python, Twilio API, Node.js)
- Built a face recognizing system by integrating a face recognition library (**Python**) with a camera that can detect family faces vs. strangers (with up to 99.38% accurate on the Labeled Faces in The Wild) to improve home security and reduce false alerts
- Alerted unusual activities to users with auto text messages (**Twilio API**)

Discord Weather Bot   December 2020
Team Project Lead   (Node.js, JavaScript, API, Surge, Heroku)
- Automated a bot on a Discord server (**JavaScript, Nodejs**) that processes user commands and flags then returns a weather report, weekly forecast visual chart, and air quality conditions for a specific request city within low latency of 1 second (**Open Weather API**)
- Designed a website to invite the bot to the server with granted roles and hosted by **Surge**.

Simplifying Adventure Works   September 2020
Application Developer   (Java, Docker, JDBC, MySQL)
- Created a GUI to enhance querying the retail company database using (**Java, MySQL**) and hosted by **Docker** container
- Designed an analytics tool on dashboard with a visualization of more than 5 business aspects (Revenue, Most Sales, Seasonal Sales, etc)

Get a Quotes   January 2020
3rd Winner - TAMUHACK 2020   (Python, Machine Learning)
- Trained models to predict the severity of the accidents based on location, time, and driver age to help improve StateFarm insurance quotes
- Bagging and boosting with 3 Machine Learning Algorithms: Logistic Regression; Random Forest and XGB on the US_accidents database to find a working model with an efficient pair of training time (59 seconds) and acceptable accuracy (66%)

AWARDS & ACTIVITIES

- Third Prize at TAMUHACK2020
- Mentor and Counsellor for 3 Summer Camps at HPRC on Cloud, Data Science, Cybersecurity topics