# NHA DO

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## EDUCATION

**University of California, Los Angeles (UCLA)** **September 2020 - January 2023**
*Bachelor of Science in Electrical Engineering* *GPA: 3.72*

Coursework: Digital Signal Processing, Data Science & Machine Learning, Data Structure, Graph Theory, Applied Numerical Computing, Analog Electronic Circuits, Logic Design of Digital Systems, Probability and Statistics

## TECHNICAL SKILLS

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|---|---|
| **Programming:** | Python, C/C++, Matlab, SQL, Java, Verilog |
| **Open-source Framework:** | TensorFlow, OpenCV |
| **Other Tools:** | Latex, MS Office, Adobe Premiere Pro, Adobe Audition |
| **Language:** | Vietnamese, English |

## EXPERIENCE

**UCLA Speech Processing and Auditory Perception Lab** **June 2021 - September 2021**
*Undergraduate Research Assistant* *Los Angeles, California*
- Filtered audio signals and analyzed the dataset.
- Trained and evaluated the efficiency of the Transformer Model for Automatic Speech Recognition.
- Collaborated with a Ph.D student to enhance the accuracy of the model.

## PROJECTS

**Diseased Leaf Detection Deployed on Embedded System** | *Python / C - STM32 H743ZI2* **2022**
- Proposed an effective apporoach to fit the dataset and enhance model's accuracy under 1MB memory constraint.
- Optimized the weights and biases when deploying the model on embedded system.
- Implemented successfully the 2D CNNs with high accuracy.

**Diseased Leaf Detection and Classification** | *Python* **2022**
- Collected, extracted and analyzed data using Pandas, NumPy libraries.
- Created and developed an Ensemble Learning of EfficientNetB7 and Exception model.
- Enhanced the model accuracy by taking the average values to achieve 96%.

**Spam Email Classification** | *Python* **2021**
- Analyzed the words appearances and calculated their probabilities based on Naiive Bayes Theorem.
- Optimized the model by using Scikit-learn library.
- Achieved the accuracy of 97%.

**House Price Prediction** | *Python* **2021**
- Extracted, analyzed and visualized the dataset.
- Developed a data transformation to optimize the Linear Regression Model.
- Built a valuation tool for the prices prediction.

**Line Following Robotic Car** | *MSP 432, C++* **2020**
- Utilized MSP432 microcontroller to operate a line following car robot to follow designed curved path.
- Completed a round trip in 9s for a track with 52 5/8 inches long and about 6 1/8 inches wide.

## CERTIFICATIONS

**Computer Vision Course** **2022**
*Udemy Academy*
**Master SQL for Data Science** **2021**
*Udemy Academy*