

DUC TRONG NGUYEN

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PROJECTS

Business solution - Interactive Card to Enhance Customer Reviews (Personal project - May 2024 – Present)

- **Interactive NFC Card:** Developed using HTML/CSS, JavaScript, and Google Sheets API, leading to a 40% increase in positive customer reviews by enhancing customer interaction and feedback management.
- **Machine Learning Integration:** Implemented algorithms to analyze feedback from NFC cards, improving response accuracy by 25% and providing actionable insights for 4 local businesses.

AI and face recognition (Personal project - May 2024- August 2024)

- **AI and Face Recognition System:** Developed using Python and OpenCV, achieving a 95% accuracy rate in identifying individuals. Enhanced security protocols for client operations, improving overall safety and operational efficiency.

Embedded - Robot Arm (Personal project - June 2024 - July 2024)

- **Robotic Arm Engineering:** Designed and built using an Arduino board, servos, and connectors. Programmed in Python and C++, improvement in movement accuracy and task performance.

NBA prediction game (Group project in-school - January 2024 - April 2024)

- **NBA Game Statistics Website:** Developed a website that tracks real-time NBA game statistics using API data.
- **Machine Learning Integration:** Applied algorithms to historical NBA data, achieving 70% accuracy in game outcome predictions, significantly enhancing user engagement and platform reliability.

Watch Tower (Group project in-school - January 2023 - April 2023)

- **Data Collection System:** Developed in Rust to gather user computer data. Integrated with a Flask backend to transmit data to a scalable SQL server.
- **Website Development:** Designed and implemented a user-friendly website using HTML, CSS, and PHP, showcasing collected data with a responsive, modern interface.
- **Desktop Application:** Built a local access application in Python for comprehensive computer information retrieval, focusing on ease of use and performance.

SKILLS

Technical Skills: C++, C, JavaScript, Python, PHP, HTML/CSS, Bootstrap, React, Nodejs, MySQL, PostgreSQL, AzureSQL, Docker, PyQt, Git, Microsoft Office, Visual Studio Code, Jupyterlab, MATLAB, VHDL, Quartus Prime, FPGA, Arduino, ESP32 (Node MCU), MQTT, Node-red, Hivemq, RTOS, IoT, UART, Blynk, FPGA.

Languages: English, Vietnamese

Soft Skills: Marketing, Solid Written And Verbal Communication Skills, Ability To Adapt And Learn, Problem-solving

EDUCATION

- Certificate of completion Embedded Systems Bootcamp: RTOS, IoT, AI, Vision and FPGA (Udemy -2024)
- Full-stack Web Development Bootcamp (Udemy – 2024)
- B.Sc. Computer Science (University of Tennessee in Knoxville – 2022-2024 – GPA 3.91)
- A.Sc. Computer Science (Pellissippi State Community College – 2022 – GPA 4.0)
- Senior year – Marketing Major (University of Economics Ho Chi Minh City – 2016 -2019)