



QUOC-DANG TRAN

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DOB: 04/12/2002

Gender: Male

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EDUCATION

International School - Vietnam National University

Hanoi, Vietnam

Bachelor of Informatics and Computer Engineering

Oct 2020 - Aug 2024

Master of Science in Informatics and Computer Engineering

Aug 2024 - present

WORK EXPERIENCE

Viettel IDC

Mar 2023 - Aug 2023

Data Engineer | Internship

- Utilize automation tools, written using Python to fetch and initialize data
- Cleaned and filtered data for integration into the data warehouse, ensuring data quality and accuracy.
- Maintained automation tool workflows, contributing to the smooth execution of the project.

ISTECH - International School Club of Computer Science and Technology

Nov 2020 - Sep 2024

Data Science Operations Team Member

- Analyze data and create predictive models for club projects
- Participate in Data Science hackathons hosted by Kaggle, Shopee, etc.
- Trained 15 members in Data Science and Data Engineering concepts and tools.

PROJECTS

People Search Engine

Jan 2024 - Aug 2024

Back-end Developer, Data Engineer

- Developed and deployed the backend for a people search engine, focusing on creating a secure and scalable RESTful API using Django REST Framework.
- Implemented user management features, authentication, and various search functionalities to retrieve information from a PostgreSQL database.
- Utilized Swagger to streamline API documentation and testing, ensuring effective collaboration with the frontend team.
- Implemented automated tool for scraping and gathering data from various sources automatically.

Audiobook Generator

Jun 2024 - Sep 2024

Developer

- Developed an application to create audiobooks from PDF files or HTML web pages using Google Cloud Text-to-Speech.
- Implemented both a user interface (UI) using Flask and a command-line interface (CLI) for system interaction.
- Set up environment configurations and integrated Google Cloud services to enable text-to-speech conversion.
- Developed commands for generating audio from PDFs and HTML URLs, and for checking the status of generated audio operations.

Financial Performance Analysis & AI-Based Stock Price Prediction

Mar 2024 - Jun 2024

Data Analyst

- Conducted comprehensive financial analysis of Sabeco, a leading beverage manufacturer in Vietnam.
- Collected and preprocessed financial data from Sabeco and other relevant companies.
- Developed predictive models using advanced machine learning techniques, including LSTM, GRU, Bidirectional LSTM, and Bidirectional GRU.
- Evaluated model performance using metrics such as Mean Squared Error (MSE), Root Mean Squared Error (RMSE), and Mean Absolute Error (MAE).
- Provided insights into the financial health and stock price trends of Sabeco, highlighting the impact of state policies on its performance.

RESEARCH

Automatic Attendance System based on Face Recognition

Oct 2022 - Apr 2023

Team Leader

- Led the development of an automatic attendance system utilizing facial recognition technology to enhance the efficiency of attendance tracking in educational institutions
- Implemented a facial recognition algorithm using Python and OpenCV, ensuring accurate real-time attendance recording
- Conducted system testing and evaluation, improving accuracy and reducing manual workload for teachers.

Predictive Modeling for Student Performance in Education

Oct 2023 - May 2024

Team Leader

- Developed a predictive model to forecast student outcomes based on data mining techniques
- Analyzed key factors such as parental education and test preparation to determine their impact on student performance.

LEADERSHIP

ISTECH - International School Club of CompSci and Technology

Nov 2021 - Feb 2022

IoT Operations Team Lead

- Train other members about IoT basic skills
- Mainly develops the backend to integrate with middleware.

CERTIFICATES

Certifications & Training: Agile Project Management - Issued by Agilearn Vietnam, Google Data Analytics Specialization - Issued by Coursera.

SKILLS

Languages: Vietnamese (native), English (full professional proficiency - B2 CEFR), French (elementary proficiency), Russian (elementary proficiency)

Technical Skills: Python, Linux, Data Engineering, Data Analytics, IT Helpdesk

Soft Skills: Teamwork, Leadership, Communication, Problem-Solving.

Supplementary Skills: Filmmaking, video editing (Premiere Pro, Final Cut Pro), photography, event technical support.

AWARDS & HONORS

Honors: "Excellent Student" title (academic years 2020-2021), "Outstanding achievements in the Youth Union and Student Union activities" title (academic years 2021-2022 & 2022-2023)

Awards: Top 10 in Cybersecurity track - JunctionX Hackathon Vietnam 2023, Titled #638 per 24.479 entries - WiDS 2021 Datathon.