Bui Minh Hieu

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Education

Ho Chi Minh University of Technology *2017 – May 2022*
Bachelor in Telecommunication and Electronics
- Toeic: 640/990

Work Experience

Outlier
March 2025 – Present
Frontend Developer - AI Training [Remote]
- **Shared code snippet manager:** Build a shared code snippet manager interface with a three-pane layout (categories left, list middle, editor right). Features: syntax highlighting, tag filtering, and copy-to-clipboard button. Make panes collapsible for mobile. (JavaScript, React, CSS, HTML5)
- **Live auction interface:** Develop a desktop-optimized live auction interface for marketplace collectibles. Create bid history timelines, countdown timers with auto-refresh, and dynamic bid increment buttons. Implement a persistent video preview panel and bid confirmation modals. Use WebSocket simulation for real-time price updates without page reloads. (JavaScript, React, CSS, HTML5)

Supercoder
Jan 2025 – May 2025
Frontend Developer [Remote - Contract]
- **Simple perfume e-commerce website:** Built the frontend with a clean, responsive UI allowing users to browse products, view details, and add items to a shopping cart. Integrated basic product filtering by brand and price to enhance user experience. Implemented key features such as product listing, cart management, and order summary. The project focuses on delivering a smooth shopping experience, suitable for small businesses or as a foundation for scaling into a more complex online store. (Javascript, HTML5, CSS, React)

Emage Development Company
AI Engineer *Jan 2024 – Dec 2024*
- **Automatic check-in system:** Implement and maintain a Face Verification system for check-in and people counting application. Built a diverse facial dataset by collecting images and videos under various lighting conditions and angles, and applied multiple image augmentation techniques to enhance model robustness and improve training efficiency. Experimented with and fine-tuned several state-of-the-art deep learning architectures, including ResNet, EfficientNet, MobileNetV2, InceptionV3,... to identify the optimal balance between accuracy and speed. Optimized the final model to achieve over 95% verification accuracy while reducing inference time by 40%, ensuring it met the performance requirements of real-world timekeeping systems. Additionally, designed and implemented a user-friendly interface to ensure ease of use for non-technical staff. The system was successfully deployed in a company environment with 100–200 employees, streamlining the attendance process and significantly reducing manual tracking effort. (Python, OpenCV, React, Javascript, Image Processing)

AI Engineer Internship *June 2023 – Dec 2023*
- **Face Mask Recognition system:** Design, implement a system capable of automatically detecting mask-wearing behavior from video input. Collected and curated a dataset of over 2,000 facial images with and without masks, ensuring diversity in lighting conditions, facial angles, and backgrounds to enhance model generalization. Applied data augmentation techniques to expand the dataset and improve training performance. Designed and trained a custom CNN model and conducted comparative evaluations with modern object detection models including YOLOv3, YOLOv4, EfficientDet, RetinaNet, SSD, and Faster R-CNN. The best-performing model achieved over 92% detection accuracy while maintaining real-time processing capability. A user-friendly interface was also developed to allow easy deployment and monitoring. (Python, OpenCV, React, Javascript, Image Processing)

Skills & Background Knowledge

Programming Languages: Python (Intermediate), SQL (Basic), JavaScript (Proficient), Typescript (basic)

Technical Skills: Theoretical Machine Learning, Image Processing, Web Development

Development Tools: ReactJS, NodeJS, Git, Tailwind, NPM, VSCode