PHAM QUANG PHUC

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Linkedin Profile | My github | My personal website

Education

Vietnam Maritime University   HaiPhong, VietNam (10/2020 - 07/2024)
BSc in Information Technology.
GPA: 3.28/4.00

Prizes

Prospective prize in Data-centric AI Competition 2021 (FPT Software)
- Developed a face mask recognition system during the Undergraduate Scientific Research program (2021–2022).
- Utilized ArcFace for facial identity recognition and implemented data augmentation techniques for improved model accuracy.

Consolation prize in University-level undergraduate research 2022 – 2023
- Created a fire detection system utilizing security cameras and YOLOv8.
- Optimized detection accuracy with hyperparameter tuning and real-world application testing.

Scholarship for the academic year 2022–2023

Outstanding student award for scientific research 2022-2023

Experiences

UNIVERSAL SCIENTIFIC INDUSTRIAL VIETNAM
Smart Manufacturing Development Engineer (07/2024 - present)
- **Managed Continuous Improvement Projects (CIP)** for production lines, collaborating closely with customers and cross-functional teams to enhance **performance** and ensure **product quality**. Key responsibilities included:
  - **Discussing and aligning project objectives** with customers, focusing on improving **UPH**, **yield rate**, increasing **automation levels**, and enhancing **product quality**, followed by **updating project progress** with customers as scheduled.
  - **Coordinating with internal departments** to prepare for **audits**, implement **corrective actions**, and improve **production processes**.
  - Despite investments in **automation** and **workforce**, implemented **cost-saving** actions during production ensured a **payback period** of under **one year**.
- **Liaised with engineering teams and clients** to ensure successful execution of projects.
- **Developed custom software** for **factory digitalization** based on client and company requirements.

IT Intern (01/2024 – 04/2024)
- Developed tools to optimize shopfloor IT operations and enhance testing processes for Web APIs.
- Created secure scripts for data synchronization between local servers and SFTP environments.

VNNET

Mobile developer intern (08/2022 - 11/2022)

- Developed frontend applications for water supply management systems
- Gained hands-on experience in software project workflows and team collaboration.

Key Achievements

- Selected to participate in a 10 days training course in Kunshan, China. Focusing on **data extraction process** and **CIP project knowledge, management**.
- Developed several web applications based on company and client requirements, such as a **dashboard aggregation system** and **an MOI management system**.
- **Coordinate** with **departments** to implement **improvements**, saving **15% of costs** and ensuring a **payback period** under **one year** for **automation investments** per **customer request**.

Skills

Technical Skills

- **Programming:** Proficient in web development and AI development.
  - **Languages:** Javascript, Python, PHP.
  - **FrontEnd:** HTML, CSS, Boostrap, VueJS.
  - **BackEnd:** Laravel, Django.
  - **Database:** MySQL, SQLite, MS SQL.
- **Data Integration:** Experienced in data integration using MQTT servers for real-time data exchange in Industry 4.0 applications.
- **Simulation Tools:** Skilled in FlexSim, SketchUp for production line efficiency modeling.

Project Management Skills

- **Experienced in project management**, with expertise in **planning**, **timeline management**, and **risk assessment** to ensure successful project delivery.
- **Strong communication skills**, including clearly conveying **objectives**, **updates**, and **expectations** to stakeholders, and **active listening** to understand **team concerns** and **client needs**.
- **Skilled in managing Continuous Improvement Projects (CIP)** to drive process optimization and performance.

Soft Skills

- **Analytical and problem-solving skills**, addressing complex challenges effectively.
- **Communicate seamlessly**, bridging gaps between **technical and non-technical stakeholders**.
- **Collaborative and team-oriented**, fostering a productive and supportive work environment.
- **Adaptable and dedicated to continuous learning**, staying updated with evolving industry trends.

Languages

- English: 600 TOEIC

Projects

Attendance System Based on Facial Recognition

- Developed a face mask recognition system during the Undergraduate Scientific Research program (2021–2022) amid the COVID-19 pandemic.
- Utilized ArcFace for facial identity recognition and implemented diverse data augmentation techniques to incorporate face masks into training data.
- Improved robustness by employing global and local threshold techniques, enhancing the accuracy of predictions.

Developing a Fire Detection System Using Deep Learning Techniques
- Created a fire detection system utilizing security cameras during the Undergraduate Scientific Research program (2022–2023).
- Collected and annotated a dataset on fire and smoke by scraping publicly available sources and applied pseudo labeling
- Trained the model using YOLOv8 and optimized it through hyperparameter tuning, achieving high detection accuracy for real-world applications.

Emotion Recognition - Github Link
- The project aims to create a model that can recognize seven types of human emotions through facial expressions.
- It includes two simple applications: one for recognition through images and another for real-time recognition using cameras.
- The goal is to develop an accurate and efficient system for emotion detection based on facial expressions.

USI HPH Dashboard System - Github Link
- Help user access dashboard more convenient, no need save a lot of dashboard links in bookmark or note.

MES Team Tool - Github Link
- Developed a tool to support data querying for the Shopfloor IT department.
- Collaborated with stakeholders to gather requirements and ensure the software met the department's operational needs.
- Streamlined workflows by implementing user-friendly interfaces and optimizing query performance.

Test Automation Platform for Web API - Github Link
- Designed and developed a platform to automate web API testing, including manual and auto-testing functionalities.
- Played a key role in defining test scenarios and managing the testing process to ensure high-quality deliverables.
- Enabled real-time reporting, reducing testing time and improving efficiency.

Certifications

Microsoft Office Specialist Word 2013 Microsoft	**Microsoft Office Specialist Excel 2013** Microsoft
Project Management Foundations Linkedin	**Hybrid Project Management: Do What Works** Linkedin