**Truong Le Vinh Phuc**
**Software Engineer | Machine Learning Enthusiast**
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## Introduction

I am a highly motivated software engineer with a strong foundation in front-end and back-end development, coupled with a growing expertise in machine learning. My experience encompasses designing and developing a range of applications, including Web, Desktop, and Mobile software, while also incorporating UI/UX design and graphic design skills. I am particularly interested in exploring the intersection of Machine Learning and Data Science, focusing on applications in Natural Language Processing and Computer Vision.

## Education

**UNIVERSITY OF INFORMATION TECHNOLOGY** — Ho Chi Minh, Vietnam
Software Engineer. 8.23/10 — Sep 2022 – Present

## Experiences

**THE BIG NEST F&B** — Ho Chi Minh, Vietnam
**Graphic Designer** — Jul 2022 – Sep 2022

- Developed a range of marketing materials, including brochures, flyers, and presentations, resulting in improved customer engagement and brand awareness.
- Created a comprehensive style guide that standardized the design and branding of all company materials, ensuring consistent visual identity across all channels.
- Collaborated with the marketing team to understand their requirements and deliver high-quality designs that aligned with the company's goals and target audience.

## Leadership and Activities

**COMMUNICATIONS DEPARTMENT OF THE FACULTY OF SOFTWARE TECHNOLOGY**
Ho Chi Minh
**Team Member** — 2022 – Present

- Designed and printed promotional materials for faculty initiatives and events.
- Managed communication tasks, ensuring clear and consistent messaging.
- Conducted video production and photography to support marketing efforts.
- Coordinated event operations and programs.

**UIT – INSECLAB** — Ho Chi Minh
**Team Member** — 2023 – Present

- Designed and printed promotional materials for faculty initiatives and events.
- Gained practical experience in a dedicated research environment focused on information security.

Contributed to projects related to:

- Software-defined programmable security (SDN, NFV, Cloud, Edge)
- Secure programming (penetration testing, data security, privacy)
- Digital forensics and cybersecurity investigations
- AI security and privacy for AI models
- Malware/botnet/APT detection, defense, and analysis
- Intrusion detection and anomaly detection
- Blockchain technologies and applications
- Mobile and IoT security

## Projects

**FACIAL EMOTION RECOGNITION (Team project)**
**Role: Developer**

- Developed a system using Python, machine learning, and HOG feature extraction to classify emotions (anger, sadness, fear, happiness, neutral) from portrait images.

- Achieved 80% accuracy on the FER-2013 dataset.
- GitHub Repository: https://github.com/sloweyyy/Facial-Emotion-Recognition-through-Portrait-Images

**PROJECTX - MULTI-PURPOSE APPLICATION FOR VIETNAMESE USERS (Team project)**
**Role: Frontend, Backend, System Design, UI/UX Design, Project Manager**

- Developed a multi-platform application integrating text-to-speech, face matching, real-time translation, and AI chatbot interaction.
- Utilized WPF (C# .NET) for desktop app and ReactJS (HTML, CSS, JavaScript) for the website.
- Leveraged MongoDB for database management; deployed using Vercel and Railway
- GitHub Repository: https://github.com/sloweyyy/IT008.O12-ProjectX

**ENIGMA (Team project)**
**Role: Frontend, Backend, System Design, UI/UX Design, Project Manager**

- Developed a multi-platform application for creating and selling custom t-shirts and tote bags.
- Technologies Used: React Native, Node.js, Firebase
- GitHub Repository: https://github.com/FiveD-SE/Enigma-Frontend, https://github.com/FiveD-SE/Enigma-Backend

## Skills

**SOFTWARE DEVELOPMENT**

- **Frontend:** React, React Native, Node.js, Bootstrap, Vercel, Railway
- **Backend:** Node.js, .NET Framework, Java Spring Boot, Firebase
- **Databases:** MySQL, MongoDB
- **Programming Languages:** C/C++, Java, Python, Go, Javascript, C#
- **Cloud Platforms:** AWS (IaaS, DBaaS, PaaS, SaaS), Microsoft Azure
- **Containerization:** Docker
- **DevOps:** GitHub Actions, CI/CD Pipelines
- **Microservices:** Design, Implementation, Security
- **Testing:** Spring Boot Testing, Integration Testing, Unit Testing
- **Agile Methodologies:** Scrum, Kanban, Extreme Programming (XP)

**MACHINE LEARNING**

- **Supervised Learning:** Regression, Classification
- **Machine Learning Libraries:** NumPy, Scikit-learn, PyTorch
- **Natural Language Processing (NLP)**

**PRODUCT MANAGEMENT**

- **Product Strategy:** Product Roadmap Development, Customer Development

## Certifications

**SUPERVISED MACHINE LEARNING: REGRESSION AND CLASSIFICATION BY ANDREW NG (Completed Jan 2024)**

- Developed a comprehensive understanding of supervised machine learning techniques, including regression and classification algorithms.
- Mastered the use of Python libraries such as NumPy and scikit-learn for building, training, and evaluating machine learning models.
- Gained practical experience in implementing linear regression and logistic regression models for prediction and binary classification tasks.
- Successfully applied machine learning concepts to solve real-world problems, demonstrating proficiency in data preprocessing, model selection, and performance evaluation.

**CAREER ESSENTIALS IN GITHUB PROFESSIONAL CERTIFICATE (Completed May 2024)**

- Create automated workflows using GitHub Actions
- Leverage GitHub Copilot, an AI development tool
- Practice using GitHub features on real-world projects
- Showcase my skills and build a compelling GitHub portfolio

**CAREER ESSENTIALS IN GENERATIVE AI BY MICROSOFT AND LINKEDIN (Completed May 2024)**

- Understand the core concepts of generative AI and its functionality
- Develop an understanding of various generative AI models

- Recognize the ethical considerations associated with using generative AI
- Explore the impact of generative AI tools on different industries

**CAREER ESSENTIALS IN SOFTWARE DEVELOPMENT BY MICROSOFT AND LINKEDIN (Completed May 2024)**

- Understand core programming concepts and structures
- Discover the structure of programming languages
- Acquire foundational programming knowledge

**GETTING STARTED WITH MICROSERVICES (Completed June 2024)**

- Core principles of microservices architecture
- Design patterns for building and operating microservices
- Strategies for safeguarding microservices

**AGILE SOFTWARE DEVELOPMENT (Completed May 2024)**

- Key agile principles and their unique benefits for software engineering
- The widely-used Scrum framework, including roles, principles, and events
- How to leverage Kanban to complement Scrum implementation
- The core concepts of Extreme Programming (XP) and its applications in improving team effectiveness

**AHA! PRODUCT MANAGEMENT PROFESSIONAL CERTIFICATE (Completed May 2024)**

- Explore the foundations of product management
- Understand the importance of product strategy in achieving success
- Develop and manage a product roadmap effectively
- Learn how to use customer development to guide product strategy

**AWS ESSENTIAL TRAINING FOR DEVELOPERS (Completed May 2024)**

- How to effectively leverage AWS services like IaaS, DBaaS, PaaS, and SaaS
- Best practices for hosting applications within AWS
- DevOps and security considerations within the AWS ecosystem
- Key concepts for preparing for the AWS Cloud Practitioner Certification (CLF-C02) exam

**ADVANCED SPRING: EFFECTIVE INTEGRATION TESTING WITH SPRING BOOT (Completed May 2024)**

- Leverage Spring Boot libraries for efficient testing
- Utilize Spring Boot test slices for targeted testing of specific application components
- Verify the proper implementation of caching mechanisms
- Understand the functionality of web controllers and create integration tests against them
- Implement error handling strategies effectively
- Write integration tests without external API calls
- Maintain message contract synchronization between client and web application

**COMPLETE GUIDE TO APACHE KAFKA FOR BEGINNERS (Completed May 2024)**

- Perform fundamental Kafka operations
- Utilize the Kafka CLI and APIs
- Build producers and consumers
- Set up a personal Kafka cluster on Mac, Windows, or Linux
- Master core Kafka concepts including topics, partitions, brokers, producers, and consumers
- Write, store, and read data using producers, topics, and consumers
- Understand real-world Kafka architecture and production deployments through practical examples
- Explore advanced Kafka topics such as log cleanup policies and handling large messages

**PYTORCH ESSENTIAL TRAINING: DEEP LEARNING (Completed May 2024)**

- Key features of PyTorch, including its simple Python API, GPU support, and flexibility
- How to use PyTorch for loading data, applying transforms, and building deep learning models
- Practical skills for accelerating deep learning research, experimentation, and prototyping
- The course included hands-on coding exercises with CoderPad, allowing me to gain practical experience with PyTorch.

**SOFTWARE DEVELOPMENT LIFE CYCLE (SDLC) (Completed May 2024)**

- Traditional SDLC models
- Modern SDLC approaches, including lean, kanban, and DevOps
- Key differences between various SDLC methods and their applicability to different project contexts