

ANH HUYNH

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SOFTWARE DEVELOPER

Experienced software developer with over 10 years of expertise in designing, implementing, and maintaining software solutions across multiple platforms and various business domains. Experienced developing cutting-edge enterprise applications including AI-powered QC, Hospital Management Systems, and Intelligent chatbots leveraging .NET, Oracle/MSSQL, and TensorFlow in an agile environment. Skilled at self-managing projects and collaborating with international teams to deliver solutions from concept to deployment.

- Cloud Computing • Object-Oriented Programming (OOP) • Project Leadership • Software Architecture
- Database Design and Development • Concurrency and Multithreading • AR/VR Development • CI/CD • DevOps

Languages: Python, C#

Web: HTML, React, TypeScript, Bootstrap, Flutter, React Native

Web Services: REST, JSON

Frameworks: Python Flask, Angular, NodeJS, vcpkg, Unity3D, UIKit, .Net

Databases: SQLite, Oracle, MSSQL, MongoDB, DataStax, Firebase

Design Patterns: Singleton, MVVM, Factory Method, Prototype

SDLC: Agile, Scrum, CI/CD

Tools: Amazon EC2, Amazon Elastic Beanstalk, Docker, Jira, Git, GitHub, GitLab, Bitbucket, Sourcetree, Trello, CLion, Android Studio, XCode, Rider, CMake, Slack, MQTT

Platforms: Windows, MacOS, Linux (Ubuntu), AWS, Azure

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

ZETA MOTION VIETNAM COMPANY LIMITED, Thu Duc, Ho Chi Minh, Vietnam • 12/2021 – 07/2024

Zeta Motion provides Automated Quality Control solutions with AI.

Platform Lead & Backend Developer

Designed and implemented Backend Infrastructure of Automated Inspection System.

- Designed and implemented the backend infrastructure for an automated inspection system using C++ and Python, significantly reducing inspection time per product from 30 minutes to under 3 minutes.
- Optimized server-side performance for an inspection management app by improving database interactions, algorithms, and API integrations, reducing response times by 30%.
- Managed database operations, including designing and migrating schemas with SQLite, enhancing data integrity and accessibility, and reducing significant time to migrate data.
- Developed and deployed REST APIs using Python Flask, enabling seamless collaboration with front-end developers for integrated solutions, leading to a 25% faster feature rollout.
- Streamlined the deployment process using GitHub CI/CD pipelines for automated build and deployment environments, reducing deployment time by 60%.
- Deployed applications using Docker and managed scalable infrastructure on Amazon EC2, ensuring reliable and efficient software delivery, and monitoring system health every second, achieving 99.95% uptime.

Technologies Used: C++, Python Flask, SQL Lite, TensorFlow, React JS, Amazon Elastic Beanstalk, Amazon EC2.

TVT GROUP CORPORATION, Ho Chi Minh, Vietnam • 07/2021 – 11/2021

A technology company which works on developing applications and software systems.

Android & iOS Developer

Built AI Chat Bot on Mobile Applications.

- Guided the translation of 100,000+ lines iOS code to Java and Kotlin for Android, leveraging expertise in Swift and UIKit to ensure the app's core functionality was preserved during the porting process.
- Integrated server-side communication using Django API and incorporated Firebase services following the MVVM architecture, enabling real-time data sync under 200ms, enhancing user experience, and improving scalability.

- Designed and developed a custom Android UI library replicating the functionality and aesthetics of UIKit from the iOS app ensuring the same user experience for Android users.
- Resolved a critical crash issue under high traffic, reducing crash rates by 80% through log analysis, root cause identification, and an optimized solution, ensuring system stability.

Technologies Used: Python, Java, Kotlin, Swift, Firebase, Android SDK, iOS SDK, UIKit, git, github, Django.

FIRST INTERACTIVE TECHNOLOGY, Ho Chi Minh, Vietnam • 09/2018 – 07/2021

A Company applied software to marketing industry.

Fullstack Developer

Built AR/VR games and Android applications to enhance customer engagement.

- Implemented GPS, indoor positioning, and mapping algorithms for accurate location tracking, achieving precision and real-time tracking solutions.
- Developed interactive AR/VR games using C#, Python, and AR/VR frameworks, achieving a 30% increase in user engagement through immersive gameplay experiences.
- Utilized Kinect technology to create interactive motion-based gaming experiences, coding pose recognition algorithms that achieved 95% accuracy in interpreting user movements for seamless in-game actions.
- Developed a safety device to monitor and protect underage users by implementing geofencing, real-time location tracking, and content filtering, contributing to improved child safety metrics.
- Engineered software for photo editing, virtual backgrounds, and other CGI enhancements, optimizing the system to enable setup within 5 minutes while ensuring high-resolution photo outputs and user satisfaction.
- Designed and launched mobile applications to control educational devices, implementing remote monitoring and control features, which resulted in a 40% reduction in downtime for device configurations.

Technologies Used: C#, Python, Unity3D, Android SDK, Kinect SDK, OpenCV, Lidar, 3D Mapping.

COMMON VISION SOFTWARE COMPANY LIMITED, Ho Chi Minh, Vietnam • 05/2013 – 08/2018

A software company that works on Mobile Applications and IoT Software.

Embedded Software Developer

Built Embedded Software.

- Developed and maintained a robust music/movie player application for navigation devices in vehicles using C++ and MFC library, resulting in a 20% increase in user satisfaction ratings.
- Implemented innovative features such as audio/video playback, graphical interfaces, and interactive elements, creating a comprehensive multimedia experience.
- Designed and deployed real-time tracking features for packages on smartphones and tablet devices for DHL, leveraging location-based services on iOS with Objective-C, reducing tracking delays by 30%.

Technologies Used: MFC, WinCE, Android, iOS, .Net Core, UIKit, Selenium.

HOA SEN SOFTWARE TECHNOLOGY COMPANY LIMITED, Ho Chi Minh, Vietnam • 03/2011 – 04/2013

Software Company built Hospital Information System.

DotNet Developer

Built a Hospital Information Software.

Technologies Used: DotNet, Oracle, MSSQL, Windows Form.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 04/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: Web Application Programming, Algorithms, Web Application Architecture, Modern Web Applications, Cloud Computing

BS in Computer Science

University of Information Technology, Ho Chi Minh, Thu Duc, Vietnam (05/2010)