PHAM VAN LAM

PERSON INFORMATION

Name	**Pham Van Lam**
Gender	Male
Nationality	Vietnamese
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Address	55, Hung Vuong, Trang Liet, Binh Giang, Hai Duong.

EDUCATION

2011 - 2016   **Hanoi University of Science and Technology, Vietnam.**

- Bachelor of Science - Electronics and Telecommunication.
- Degree Grade: Good - CPA 3.52
- TOEIC Score: 735
- Got a Scholarship from the Samsung Talent Program.

TECHNICAL SKILLS

- **Programming Languages:**
  - C/C++, C#
  - Java/Android/Kotlin
  - Python/Cython
  - JavaScript/HTML5/CSS3

- **Version Control**
  - Git (Github/Gitlab)
  - Perforce

- **Web Frameworks / Platforms:**
  - ReactJS, AngularJS
  - NodeJS, ExpressJS
  - jQuery, Bootstrap, SCSS
  - Gatsby.js
  - Ant design, Material-UI, Chakra-UI

- **Software development libraries:**
  - QT/QML, Sailfish SDK
  - MFC, FFmpeg
  - OpenGL, SDL
  - Boost

- **Database:**
  - SQLite, MySQL
  - MongoDB & Mongoose

- **Operating Systems:**
  - Windows
  - Ubuntu

- **Others:**

  - Good understanding of OOP methodologies, design patterns, and solving algorithms.
  - Intermediate GIMP (Photoshop) skills for designing: logos, banners,…
  - PCB Design using Altium.
  - Microcontroller C Programming: 8051, ATmega32, TI MSP430.
  - IDE: Visual Studio, Visual Studio Code, Android Studio, QT Creator.

PROFESSIONAL EXPERIENCE

Samsung Vietnam Mobile R&D Center, Hanoi, Vietnam.   **06/2016 - 03/2019**

Position: Software Engineer & Web Developer

Projects:

- **Samsung Gear 360 - PC SDK - C++:**
  - **Project Description**:
    - Develop PC SDK for Gear 360 camera, which helps developers to be easier to connect with the camera, stream video, audio, and stitch video.
  - **Responsibilities**:
    - Implement some simple APIs.
    - Write Unit Test for the SDK.
    - Develop a Sample Application to demonstrate how to use the SDK and write a document guide for it.
    - Collaborate with other members to develop a Sample Application for Samsung Development Conference 2017.
- **Share screen between Mobile and Web using WebRTC**:
  - **Project Description**:
    - Develop an Android Application, a Signaling Server, and a Web Application for sharing a mobile screen to the Web.
    - Besides, users can control their Mobile through the Web.
  - **Responsibilities**:
    - Examine a Repository on Github.
    - Customize it for the project's purpose.
    - To mentor a group of 3 trainee students to complete this project.
- **Open Theme Web Editor**
  - **Project Description**:
    - Develop a Web Application that is an alternative to Samsung Theme Editor which supports Windows and macOS only.

- o **Responsibilities**:
    - Communicate with a team that developed Samsung Theme Editor for Windows to understand all functionalities.
    - Collaborate with a server team, that provides Restful APIs for the Web.
    - Design data and application structure.
    - Develop the application.

VinSmart Research & Manufacturer Joint Stock Company **03/2019 - Present**

Position: Software Engineer & Web Developer

Projects:

- **Vsmart Theme Creator:**
    - o **Project Description**:
        - Develop a Web Application for creating themes, wallpaper, icon packs, and stickers for Vsmart smartphones.
    - o **Responsibilities**:
        - Collaborate with a phone team to create data resources for creating a theme and building theme.
        - Design and develop the web application.
- **VSigning:**
    - o **Project Description**:
        - Develop a signing system that is used to sign firmware, binary, and APK for Vsmart smartphones.
    - o **Responsibilities**:
        - Collaborate with teammates to design system architecture.
        - Develop signing client and signing gateway.
- **VMessage:**
    - o **Project Description**:
        - Develop a VMessage application that works like iMessage on iPhone.
    - o **Responsibilities**:
        - Collaborate with teammates to maintain and develop new features for a core that is based on C++/QT to create multi-platform applications.
        - Collaborate with teammates to develop VMessage for Vsmart phones running Sailfish OS, VMessage PC for Windows and Ubuntu.
- **VFlashTool:**
    - o **Project Description**:
        - Develop a flash tool to flash Firmware for Vsmart smartphones.

- The tool supports smartphones using Qualcomm and MediaTek chips.
    - o **Responsibilities**:
        - Collaborate with teammates to develop the application.
- **VSwitch:**
    - o **Project Description**:
        - Develop a tool to transfer user data (contacts, messages, photos, video…) from other smartphones to Vsmart smartphones.
    - o **Responsibilities**:
        - Develop an iPhone backup parser to parse data from an iPhone backup which is saved by iTunes to extract contacts, messages, photos, and video,…
- **SmartHub:**
    - o **Project Description**:
        - Develop a job management application for Vinhomes employees.
    - o **Responsibilities**:
        - Develop a multi-platform core library using QT/C++ for Android and iOS.
- **Vsmart Home:**
    - o **Project Description**:
        - Develop an application that is used in a smart home.
        - This application can be used to control smart things in a smart home: TV, light, air conditioner, and camera.
    - o **Responsibilities**:
        - Custom WebRTC library to record audio and video from a camera to a phone.
- **TechnoPark - Office App:**
    - o **Project Description**:
        - This application is designed specifically for users who are office workers, company managers, and users who are interested in TechnoPark smart buildings.
        - Functions to support work for admins as well as employees in the company: face registration allows employees to enter the building, register and manage meeting rooms, register guests to work at the building, utilities to find restaurants, vacant parking spots, direct to the nearest exit, and pay for the parking fee…
    - o **Responsibilities**:
        - Design a data structure and build a map data using the GeoJSON format and OpenStreetMap editor.

- Develop an indoor core (QT/C++) for parsing the map data structure and implementing functions for finding the shortest way between any two points on the map.
- Develop the parking module (in Android) which consists of finding vacant parking spots, directing to the nearest exit, and paying for the parking fee.
- **Smart Parking SDK:**
  - **Project Description**:
    - Develop an Android SDK to be integrated into Vinhomes Resident application for smart parking.
  - **Responsibilities**:
    - Use the indoor core which is developed from the TechnoPark application to develop the Smart Parking SDK (Android).
    - Build map data for all parking.
- **Indoor Navigation:**
  - **Project Description**:
    - Develop a system for Indoor Navigation to apply in Vincom Mega Malls.
  - **Responsibilities**:
    - Research and implement an indoor navigation algorithm (trilateration algorithm and KNN algorithm).

PASTIMES AND ACTIVITIES

- I am keen on reading IT blogs, Medium, and self-help e-books in my free time.
- Besides, I enjoy instrument musical. So I self-learn to play Ukulele and can perform some simple songs.
- And, I like Street Workout. So I work out at least four times a week to get fit and healthy.
- My other hobby is blogging. So I often write technical blogs to share my experience with other developers, as I am the author of Vietnamese IT blogs, which are:
  - completejavascript.com
  - tools.completejavascript.com
  - thuattoan.phamvanlam.com
- Last but not least, I also work on some side projects. And they can be found at:
  - My online portfolio: about.phamvanlam.com
  - My apps: https://play.google.com/store/apps/developer?id=LamPV