

Ho Chi Minh City,
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Phuc Nguyen Minh

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Education

Ho Chi Minh City, Vietnam	University Of Science	Sep 2011 - Sep 2015
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- BSc in Computer Science, Honors Program. GPA: 8.52 / 10. Rank 9th / 600

Experience

iOS Engineer	Tesuji Games Inc. - tesuji.io	May 2017 – Present
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Ho Chi Minh City, Vietnam

- Solely develop social gaming application on iOS with following finished work:
- Screen livestreaming with manual in-stream branded videos.
- Stream playback on mobile, with real-time reaction and virtual gifts
- Video chat functionality up to 4 participants, including banning, muting, inviting users.
- Work with teammate to integrate Unity3D into the app
- Social network features: Friend list, text chat, geo-based and contact-based friend search,... Database based on both real-time Firebase and MySQL.
- Apply Functional Reactive Programming (RxSwift) to iOS to write better asynchronous code
- Promotion video: <https://vimeo.com/258193683/44b2e044b8>

iOS Engineer	MonsterPixel - monsterpixel.us	Sep 2015 – April 2017
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Ho Chi Minh City, Vietnam

- Build offline mode for app
Offline requests will be executed whenever Internet connection is on
- Implement video streaming & playback
- Implement high-speed bluetooth video streaming on iOS devices
- Implement an algorithm to map realtime data from camera and motion sensor
expected accuracy is very high (10ms)
- Video processing: Object detection, color segmentation, video stitching, "loop recording"
- H.264 processing: JPEG/PNG images <—> Raw H.264 frames <-> MP4 video
- Write C/C++ module to interact with physical camera via drivers
- Write JNI, JNA module as a bridge between Java App and C/C++ module
- Build Augmented Reality app with Vuforia SDK

Skills

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- iOS skills: AutoLayout, Concurrency, Custom Control, Profiling, CI/CD, RESTful API, Architecture Patterns,...
 - Programming Languages: Swift, Objective-C, C/C++
 - Scripting: Python, Swift, Bash
 - Database: Sqlite, MySQL, Firebase, Realm
 - Backend: NodeJS
 - Video processing on mobile: Video composing, manipulating
 - Livestreaming: Wowza Cloud/Engine, RTSP, RTMP, HLS
 - Audio processing on mobile: Audio Pitch Detection
 - Source control: Git

Articles

- <https://medium.com/@nguyenminhphuc>

Side Projects

- **MagicTuner** (<https://itunes.apple.com/us/app/magictuner-a-chromatic-tuner/id1149767301>)
A simple but magical music tone detection
- **PhotoSecurity** (<https://itunes.apple.com/us/app/photo-security/id1023297758>)
Private photo storage
Secret photo capturing capability
- **Mip & Poon** (<https://itunes.apple.com/us/app/mip-poon-tre-em-hoc-chu-va-so/id1114276484>)
A game help kids learn Vietnamese
Just learned SpriteKit in 1 week
- **RoundCornerProgress** (<https://www.cocoacontrols.com/controls/round-corner-progress>)
Opensource UI control in iOS

Awards

- **2nd prize Eureka Scientific Research Award** (Vietnam)
HCMC Communist Youth Union December 2015
- **1st prize Student Scientific Research Award** (Vietnam)
Vietnam National University, Ho Chi Minh City (VNUHCM) October 2015
- **Excellence Achievement in Scientific Research Award** (Vietnam)
University of Science Sep 2015
- **2nd prize Thach Thuc Academic Competition** (Vietnam)
University of Science April 2015
- **Dean's List in 2013-2014** (Vietnam) GPA 8.97 / 10 2014
- **1st prize Mobile Hackathon 2013** (Vietnam)