

# Nhan Cao

Solutions Architect  
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## Abstract

I am a Solutions Architect with over 10 years of full-stack experience.

A forward-thinking man passed several positions with wide knowledge cover almost every aspect of the IT field, design a solution that fulfills the information and data architecture requirements. These technologies cover the entire life cycle of design, development, testing, deployment, maintenance, performance tuning, and user support.

### HIGHLIGHTS

- ✦ Good logical thinking skills.
- ✦ Known for writing efficient, maintainable, and reusable code.
- ✦ Proficient in programming patterns and principles, algorithms, data structures, problem-solving, and debugging.
- ✦ Eagerness to embrace scalability, reliability, and performance challenges.
- ✦ Positivity and responsibility in words, communication, and feedback.
- ✦ Time balance and creative management.
- ✦ Passion for building products that users love.
- ✦ Experienced in software design and application architectures with high security and performance optimization.
- ✦ Strong at source code management, continuous integration, and continuous deployment.
- ✦ Experienced and good knowledge of full-stack development e.g web front-end, backend-end to mobile and system.
- ✦ Experienced in modern knowledge about Machine Learning, Artificial Intelligence, and Blockchain.

## Background

★ B.Ce. (Honors) (Sept. 2010 - June. 2015): Computer Engineering, University of Information Technology, VNU-HCM, Vietnam.

★ GPA: 3.84/4 (Rank: 1/120). Thesis score: 9.7/10 with topic SmartHome with Zigbee network.

★ Completed the Data Science Course (Nov 26, 2018 – Jan 29, 2019), Dr. Tran Anh Tuan, Department of Maths & Computer Sciences, HCMUS.

## Award

- 🏆 UIT Scholarship - 2010, 2011, 2012, 2013, 2014 - ranking Very Good
- 🏆 Consolation Prize in National Olympic Contest for IT Student - 2012
- 🏆 VNPT Scholarship 2012
- 🏆 Nguyen Thai Binh Scholarship 2013
- 🏆 POSCO ASIA Fellowship 2013
- 🏆 JENESYS 2.0: JICE (Japan International Cooperation Center) 2014
- 🏆 First Prize of UIT-ACM 2nd 2014
- 🏆 First Prize of “Code to 23:00” competition - 2014
- 🏆 Best Article Prize: Control smart home device by Infrared rays on android was public on Young Scientists Conference UIT 3rd, 2014
- 🏆 Consolation Prize in National Olympic Contest for IT Student 2014
- 🏆 Students of 5 merits of Ho Chi Minh city 2014
- 🏆 Get highest honor of Computer Engineering Faculty in 20/06/2015

## Publication

- 🏆 Best Article Prize: Control smart home device by Infrared rays on android was public on Young Scientists Conference UIT 3rd, 2014

## Certification

- ★ The 2012 ACM-ICPC Programming Contest Asia Hanoi Regional
- ★ POSCO Asia Fellowship 2013
- ★ The 2013 ACM-ICPC Programming Contest Asia Danang Regional
- ★ Habitat for Humanity International - Vietnam 2014
- ★ JENESYS 2.0 - 2014
- ★ Agile Software Development with Scrum - 2014

- ★ The 2014 ACM-ICPC Programming Contest Vietnam National Round
- ★ AWS Certified Developer - Associate: <http://bit.ly/nhancv-dva>
- ★ AWS Certified Solutions Architect - Associate: <http://bit.ly/nhancv-saa>
- ★ AWS Certified Solutions Architect - Professional - <http://bit.ly/nhancv-sap>
- ★ Upwork Skill Certification - Javascript Back-end Development

## Experience

**24/02/2015 - 31/12/2015**

Android Developer

Left Coast Logic, Vietnam

Description: Develop and maintain the E-commerce products for Japan market on Android mobile and table: Loyalty Program, Lottery, Save or Exchange Point, Payment, NFC, BLE/Beacon

Application

- Android merchant: This application installed on a tablet for merchant to manage employees and booking from user
- Android user: This application installed on a phone for user to book and save point

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**06/10/2015 - 15/11/2019**

Co-founder, CTO

Yeskone, Vietnam

Description: Outsourcing company

Projects: Mecsu, Hubanking, Job finder

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**01/01/2016 - 01/05/2016**

Software Consultant

Society for Health Information Systems Programmes (HISP), India (On site)

Description: Support technical issues, development tasks, technical tasks, helping in recruitment of new people, building of systems and rules, clean system code, support and solve stuck in team, supervisor role

Application

- DHIS2 Core: Support implement to get security certificate
- DHIS2 Report: Support team to solve stuck in development
- DHIS2 Android capture: Implement android project for data capture

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**01/05/2016 - 05/08/2016**

Senior Mobile Developer

RWD.sg, Singapore

Description: Develop android application to get cheapest price on market

#### Application

- Android wise price: Get cheapest price on market using almost Amazon web services such as DynamoDB, S3, SES, SNS, Mobile Hub, Cognito and Lambda

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**27/08/2016 - 01/05/2020**

Mobile Team, R&D Project Manager

Beesight Soft, Vietnam

Description: Team leader, scrum master, support, research and development, pilot and transfer to development

#### Training members

- Android native
- React native
- Flutter
- AI & ML

#### R&D

- WebRTC
- Kurento media server
- XMPP with Ejabberd
- OpenCV
- Blockchain
- Ethereum smartcontract
- Omni USDT exchange
- Face recognition
- Face id
- Chat bot
- Recommendation system
- oVirt cloud KVM virtualization
- BPMN with Zeebe

#### Application

- Android FitAccess: Application for gym, apply chat using XMPP
- Android Socialoop: Social network, video effect
- Android FeedMe: Exchange point, delivery
- Android Tacko: Implement an online exchange market
- React native Kawan Cicil: Instalment plan
- React native Hanshan: Exchange money
- React native Matme: Social network
- React native Taxbase: Personal Tax management
- Blockchain MVP: Medical testing management using Hyperledger Fabric
- Flutter Beemon: Project monitor
- Android Getogeda: Realtime game about face mask, video call, effect on voice
- Android Moblize: Social network, oil and gas tracking

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**01/04/2017 - 01/01/2018**

Software Consultant

Society for Health Information Systems Programmes (HISP), India (Remote)

Description: Provide consultancy service to HISP regarding Software Development on various projects located outside India

#### Application

- DHIS2 Android capture: Implement android project for data capture

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**15/11/2019 - 18/01/2021**

Co-founder, CTO

Rilthot, Vietnam

Description: Trading bots

Projects: RilCrypto, RilForex, RilBot, RilPay

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**01/05/2020 - present**

Professional Freelancer

[Upwork Inc.](#)

Description: Mobility Architect - Flutter, React Native Team Up With AWS.

<https://upwork.nhancv.com>

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**12/06/2020 - present**

Expert Flutter

Post-PC Labs, LLC, Mountain View, United States

Description: Time management apps

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**18/12/2020 - 16/07/2021**

Expert Flutter

64 Robots, Baltimore, Maryland, United States

Description: Livestream apps

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**01/10/2021 - present**

Chief Technology Officer

[Skrice Studios](#), Hanoi, Vietnam

Description: Skrice Studios is focused on delivering the best quality games in the Blockchain space.

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## Professional Skills

### EXPERT BLOCKCHAIN

→ Keywords: Full stack application, Blockchain, ERC721, ERC1155, ERC165, EIP712, Truffle, Hardhat, Unit test, Openzeppelin, Upgradeable, Ganache, BSC, Ethereum, Polygon, Fantom, Heco, Hyperledger

→ Case study: ERC20 Token, Token buyback/reflection/reward, TRC20 Token, Smart Contract, NFT/DeFi, Application building from zero, Scaling, High Availability and Fault Tolerance, AWS solution, Marketplace, Locking, Staking pool, ICO and launch pad, Governance voting, Loan, Medical testing, Contract audit.

## ✅ EXPERT MOBILE ARCHITECT | FLUTTER (Dart)

→ Keywords: nft, npreferences, sqflite, cookiejar, adapting screen, intl, provider, dio, custom paint, mockito, flutter test, widget test, Bitrise, AppCenter, AWS

→ Case study: Twilio chat, WebRTC, SIP, Mux, RTMP publisher, RTMP viewer, Custom icon font, Full Firebase skills (analytics, crashlytic, firestore, cloud storage, cloud function, authentication), Rive animation, RSA, AWS S3, IAP, Stripe, BLE/iBeacon

## ✅ CLOUD SOLUTIONS AND BACKEND NODEJS (Typescript)

→ Keywords: SA Professional, DVA, CF, NestJs, MongoDB, Bull Queue (Redis), PM2, Nginx, VPS, AWS High Availability & Fault Tolerance, CloudFlare, Netlify

→ Case study: WebRTC, Web3js, RestFull, Firebase Authentication, Firebase cloud function, AWS Lambda, Socket

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## Other Skills

*Not just a list.*

### Mobile

Native Android: Gradle Groovy, Kotlin, Java. MVP model, Dagger2, Butterknife, Annotations, Event bus, RxAndroid/RxJava, junit, Espresso, Picasso, Gson, Retrofit2, Realm, GMaps, FB/G+/Twitter Sdk, Fabric, Mint, Log entries, BLE, NFC, Amazon web services

Cross-platform:

- Ionic: Angular
- ReactNative: ES6, Redux, Ignite, Nativebase, Reactotron, Immutable
- Flutter: Dart, Material Design

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### Web

Server: PHP (Laravel/Lumen), Java EE, C Embedded, XMPP (Ejabberd, Smack), NodeJs (ExpressJs, WebRTC, Kurento, Socket.io/Websocket, Nestjs), Redis, HAProxy, Spark, Hadoop, Kafka, ZeroMQ

Frontend: Angular, ReactJS, Bootstrap, jQuery, TypeScript, Html, Css, GraphQL, Wordpress, Magento, Gulp, Bower, Scss/Less, QUnitJs

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## **Blockchain**

Ethereum: SmartContract, ERC20 Token, ICO CrowdSale (Solidity + Web3)

Tron: SmartContract, TRC20 Token, TRC10 Token

Bitcoin: OMNI USDT exchange on bitcoin network

Hyperledger Fabric: Backend with Java Sdk, chaincode with go lang and deploy via Docker

Hyperledger Iroha: Android app, Javascript wallet and Docker

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## **Bot**

Wiki bot: use Dialogflow, NLP

Immovables bot: work as a real estate agent

Binary trading bot: automated trading with customizable strategy

USDT exchange bot: automated fiat exchange USDT via telegram (support OMNI, ERC20, TRC20)

ERC20 Token exchange bot: automated exchange Ethereum ERC20 Token via telegram

Forex trading bot (MQL4/MQL5): signal alert, copy and automated trading with customizable strategy

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## **AI**

Statistic, Data Mining, Machine learning and Deep learning

Env & tool: Python, Colab, Nteract, Kaggle, Orange3, OpenCV, Tensorflow, Dialogflow, Dlib, Firebase ML

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## **OS/System**

macOS, Linux, Windows, Nginx, Apache, KVM virtualization with oVirt

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## **Database**

MySQL, Sql Server, Sqlite, Realm, Postgres, DynamoDb, InfluxDB, MongoDB

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## **Embedded**

Atmel, Arduino, ESP32, ESP8266, ARM, Raspberry Pi, NFC, BLE, iBeacon

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## **Version control**

Master of the Git: GitHub, GitLab, Bitbucket

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## **Others**

Teamwork PM, Scrumdesk, Redmine, JIRA, Sketch, PS, Zeplin, Jenkins, CircleCI, Google Cloud, Unity AR (ARKit, Vuforia), Tsung

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## **Hobby**

Algorithm

Read IT books

Your challenges

## **Social**

Blog: <https://nhancv.com>

Github: <https://github.com/nhancv>

Medium: <https://medium.com/@nhancv>

Upwork: <https://upwork.nhancv.com>

## **Contact**

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<https://nhancv.github.io>