

# Nguyen Si Quan

*Software Engineer*

Place of birth: Tuyen Quang

Date of birth: 28/12/1991

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*Remember, the beginning is always the hardest*

## Education

2009–2013 **Information Technology**, Vietnam National University - University of Engineering and Technology, Ha Noi.

## Work history

2013–Present **Software Engineer, Project Manager**, Viettel Group.

Main responsibilities:

- Design, develop, consult in planning of software development, aim to promote bussiness result, operating and exploit telecom network.
- Research and develop the systems to replace products from oversea partners.
- Collaborate with stakeholders to create requirements and build products.

## Projects

### Network Performance Management System

**Project Manager**, Viettel Group.

- Build a data warehouse for reporting and telecom data analysis.
  - Collect logfile from multiple sources.
  - Parse file and store raw data.
    - Compute KPIs by various dimentions from the data.
    - Analyze KPIs to detect bad KPIs for improvement.
  - Front-end.
    - Create dynamic dashboard to present data visually.

### Traffic Optimization

**Technical Leader**, Viettel Group.

- A system designed to probe and exchange routing for maximize end-to-end network performance.
  - Collector.
    - Collect, store and analyze netflow data.
    - Gather information about current network(bandwith, port status, BGP, GeoIP).
  - Probe.
    - Define rules to find the best route.
    - Probe automatically to find the best route.
  - Impact.
    - Make routing decisions and exchange routing.
  - Develop front-end for product.

## Automation system

### **Project Manager, Viettel Group.**

- A complete impact automation platform for various devices(such as: Servers, IP devices, Telecom devices).
  - Manage network infrastructure.
  - Provide interface for define impact template.
  - Impact network(ssh, telnet, jdbc).
    - Impact many devices parallely within a short time.
    - Allow user to rollback.
  - Link with other systems to assign and approve tasks to employees.

## IP Network Monitor

### **Software engineer, Viettel Group.**

- Monitor IP devices informations.
  - Monitor up/down status, traffic(in/out), RAM, CPU, ...
  - Ability to monitor thousands of IP device in real time.
  - Detecting abnormal changes.

## Technical skills

Language	Java, Scala, TypeScript, JavaScript
Database	Oracle, PostgreSQL, Mysql, Redis, InfluxDB
Bigdata	Hadoop, Spark, Hive, Kafka
Framework	Jsf(Primeface), Spring, Hibernate, Angular2+
OS	Linux, Windows

## Languages

Vietnamese, English

## Certificates

9/2017	Toeic 720
5/2012	IBM Certified Solution Designer(Object Oriented Analysis and Design, vUML 2)

## Strength

- Hard working, high level of responsibility, independence and reliability
- The ability to research new technologies
- Attention to details and effective critical thinking

## Hobbies

Travelling, Running, Listen to music

## Personal Objectives

### Short term

- Improve English skill

### Long term

- Become a big data expert