

# Khanh Ngo – SRE/DevOps, Team Leader

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## In a Nutshell:

- 8 years' experience in system engineering & development
- Interested in programming, distributed systems and huge platforms
- Open source enthusiast
- Work mostly with Linux distributions
- Web development understanding
- Good project management and team leading skills

## Education:

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**2009 - 2014**      **University of Information Technology**, Computer and Communication Networks. Bachelor of Engineering, GPA 8.3/10.

**2007 - 2009**      **Nguyen Binh Khiem specialized high school**, Information Technology.

## Work Experience:

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**since 2017**      **SkyLab Group: DevOps Team Leader**

- Migrate the on-premise infrastructure to public cloud provider (AWS and Azure).
- Maintain the production IoT infrastructure.
- Build and operate the multi cloud platform based on Kubernetes.
- Hands-on experience with various technologies.
- Work closely with developers on product design & implementation.
- Provide leadership to the team under control and coach, mentor team members.
- **Technologies:** Kubernetes, Terraform, Zabbix, Puppet, Ansible, WireGuard, Python, Go, GitLab CI/CD.

**2016 - 2017**      **SkyLab Group: Senior Solutions Developer**

- Build the SkyLab IoT inventory management system.
- Build the SkyLab Transport Accelerator (STA): CLI, Web Interface.
- Contribute to the company's product development. Working with developers on identifying technology used in the product.
- Maintain the customer's IoT infrastructure.
- **Technologies:** Python, C/C++, SQLite, MySQL, Buildroot, Publish/Subscribe, Queue pattern.

**2014 - 2016**      **Lazada Group: Senior System Engineer**

- Member of the Infrastructure team, take care of the availability of company e-commerce websites in SEA (6 countries).
- Migrate the infrastructure from Rackspace cloud to own datacenters in Singapore, Indonesia and Hongkong (~2000 physical servers).
- Manage the staging environment on AWS (~400 VMs).
- Migrate the CDN provider from Myracloud to Akamai.
- Build the in-house tools (internal DNS; ELK and Graylog for logging; Zabbix and Icinga2 for monitoring).
- 24x7 On-call responsibilities and working with the teams in Vietnam/Singapore/Moscow to maintain the on-call schedule.
- **Technologies:** Go, PHP, MySQL, Docker, xCat, Elasticsearch, Graylog, ELK, Zabbix, Newrelic, RabbitMQ, Memcached, Redis, Nginx, HAProxy.

**2013 - 2014**

**Trobz: System Administrator**

- Responsible for planning, designing, implementing and upgrading the entire IT infrastructure of company.
- Manage, deploy and maintenance customer's ERP (Odoo) system.
- Hands on virtualizations such as OpenVZ, KVM and Hyper-V.
- Automate the VM provisioning using puppet.
- Automate the Odoo deployment using Python scripts and Ansible.
- Maintenance PostgreSQL database servers.
- **Technologies:** Python, PostgreSQL, Odoo, Proxmox, Puppet.

**2011 - 2013**

**Phan Nguyen Technology Develop Co. Ltd: System Engineer**

- Implement, maintenance video streaming infrastructure (Wowza Media Server, FFmpeg and Adobe Media Server).
- Build virtualization infrastructure for in-house products.
- Work in VMware Solution Provider Partner Program.

## Open Source Projects:

*Projects are available on my GitHub profile*

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- PowerDNS-Admin *A PowerDNS web interface with advanced features.*
  - Flask-file-uploader *An upload script built with python Flask with jQuery File Uploads.*
  - Ifconfig.top *A website to show the visitor IP address, support curl, wget, fetch client.*

## Technical skills:

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<b>Theory</b>	Basic algorithms, data structures, object-oriented programming.
<b>Systems</b>	Linux (advance), Windows Server (basic), MacOS X (client).
<b>Languages</b>	Python, Go, Rust, C, C++.
<b>Web dev</b>	Flask framework, CSS, Javascript.
<b>RDBMS</b>	MySQL, PostgreSQL, SQLite.
<b>NoSQL</b>	Cassandra, Elasticsearch, Redis, InfluxDB.
<b>DevOps</b>	Docker Swarm, Kubernetes, Terraform, Puppet, Ansible, GitLab CI/CD, Git.
<b>Cloud</b>	AWS, Azure, GCP.

## Certificates:

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- Microsoft Certified: Azure Administrator Associate
  - Microsoft Certified IT Professional - Server Administrator
  - Juniper Networks Certified Associate – Junos
  - VMware Certified Professional 5 - Data Center Virtualization

## Languages:

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<b>Vietnamese</b>	Native speaker
<b>English</b>	Professional