Duong Duc Dat

DevOps · Cloud Engineer

Hanoi, Vietnam

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"Be the change that you want to see in the world."

Summary

A security-first mindset. Passionate about new technologies and valuable experience in various roles as DevOps, Cloud Engineer, DBA, Sysadmin in the professional working environment, desire to become a DevOps and Cloud expert.

Work Experience

The Vietnam Technological and Commercial Joint Stock Bank (TECHCOMBANK) *Hanoi, Vietnam*

DevOps & Cloud Engineer *Apr. 2021 - Present*

- Design and implement AWS Landing Zone using AWS Control Tower service.
- Provision and manage multiple AWS accounts' infrastructure using Terraform.
- Migrate applications from On-premises to Cloud with a lot of differential complex architect designs.
- Build toolchain for Infrastructure as Code.

VietNamNet Online Newspaper *Hanoi, Vietnam*

DevOps Engineer *May. 2021 - Present*

- Build and maintain Kubernetes infrastructure following the GitOps pattern.
- Build and maintain the CICD process.
- Configure logging and monitoring for all systems.
- Maintain backup/restore strategies, monthly restore testing.

Vinsmart Research and Manufacture Joint Stock Company (VINGROUP) *Hanoi, Vietnam*

DevOps & Cloud Engineer *Mar. 2019 - Apr. 2021*

- Build and maintain all Vinsmart's information technology infrastructure from scratch.
- Design, implement, administrating, operating, tuning the cloud-native infrastructure as Kubernetes to serve many applications.
- Design, implement, administrating, operating, cost optimization for Azure infrastructure.
- Migrate legacy applications into containers and Kubernetes, setup and manage CI/CD.
- Troubleshoot system issues related to CI/CD process, server problems, network, DNS, etc.
- Implement applications in multiple regions.
- Implement, administrating, and operating, tuning SQL Server, MySQL, MongoDB.
- Resource capacity planning of CPU, Memory, Storage.
- Patching, updating, security hardening for applications and servers.
- Maintain backup/restore strategies, monthly restore testing.
- Support other DevOps teams to implement, go-live/public applications.
- Mentoring and training other employees.

The Vietnam Technological and Commercial Joint Stock Bank (TECHCOMBANK) *Hanoi, Vietnam*

Database Administrator *Nov. 2017 - Mar. 2019*

- Administering, monitoring, and maintaining the database-related products and solutions as Oracle Database, RAC, Data Guard, Transparent Data Encryption, Microsoft SQL Server, …
- Installing and upgrading the Oracle Database server and application tools.
- Tuning Production databases for performance optimization.
- Allocating system storage and planning future storage requirements for the database system.
- Writing the security hardening documents for system operation and databases.
- Managing User privileges & Roles.
- Setting up jobs for monitoring the operation system, databases and setting up daily and weekly backup using Veritas NetBackup.
- Auditing the database objects and system privileges.
- Work in conjunction with application developers, architects, and systems administrators.
- Contacting Oracle for technical support.
- Support end-users to resolve requests.

August Technology and Application Joint Stock Company (AT&A) *Hanoi, Vietnam*
Database Administrator *Mar. 2016 - Sep. 2017*

- Troubleshooting incidents and request fulfillment support.
- Monthly database health check report.
- Installation, configuration, maintenance, and upgrades Oracle products.
- Create backup and recovery plans and procedures.
- Monitor performance of the database and operating system.
- Performing ongoing tuning of the database instances.
- Writing and maintaining database documentation.
- Capacity planning creation.
- Patch management and version control.
- Administering all database objects, including tables, clusters, indexes, materialized views, sequences, packages, and procedures.
- Managing the security and disaster recovery aspects of the database.

Honors & Awards

INTERNATIONAL

2018	**Finalist**, DEFCON 26th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2017	**Finalist**, DEFCON 25th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2014	**Finalist**, DEFCON 22nd CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2013	**Finalist**, DEFCON 21st CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2011	**Finalist**, DEFCON 19th CTF Hacking Competition World Final	*Las Vegas, U.S.A*

DOMESTIC

2015	**3rd Place**, WITHCON Hacking Competition Final	*Seoul, S.Korea*
2017	**Silver Prize**, KISA HDCON Hacking Competition Final	*Seoul, S.Korea*
2013	**Silver Prize**, KISA HDCON Hacking Competition Final	*Seoul, S.Korea*

Presentation

DevFest Seoul by Google Developer Group Korea *Seoul, S.Korea*
PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE> *Nov. 2017*

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference) *Seoul, S.Korea*
PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS> *Jul. 2012*

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

Writing

A Guide for Developers in Start-up *Facebook Page*
FOUNDER & WRITER *Jan. 2015 - PRESENT*

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

Program Committees

2016	**Problem Writer**, 2016 CODEGATE Hacking Competition World Final	*S.Korea*
2013	**Organizer & Co-director**, 1st POSTECH Hackathon	*S.Korea*

Education

KMA (The Academy of Cryptography Techniques) *Hanoi, Vietnam*
B.S. IN INFORMATION SECURITY ENGINEER *Aug. 2011 - Jul. 2016*

Extracurricular Activity

PoApper (Developers' Network of POSTECH) *Pohang, S.Korea*

Core Member & President at 2013 *Jun. 2010 - Jun. 2017*

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH) *Pohang, S.Korea*

Member *Sep. 2010 - Oct. 2011*

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.

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