Julian (Phong) Nguyen

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EDUCATION

Connecticut College   New London, CT | May 2024
BA COMPUTER SCIENCE & ECONOMICS
Honors and Awards: Dean's High Honor, Distinction (Sophomore/Junior) CS Student

WORK EXPERIENCE

JUMP TRADING | SOFTWARE ENGINEER INTERN - INFRASTRUCTURE   Chicago, IL | June 2023 - August 2023

Technologies: *Python, Ansible, RHEL, Bash, Jenkins, Podman*
- Introduced new functionalities & **Molecule** integration tests for multiple production-ready internal **Ansible** roles/modules handling *package managers*, *process management*, and *application deployment*
- Refactored 70% of an event-driven **Ansible** plugin to fan-out result message publishing across different backends, enhancing observability on playbook execution
- Contributed to an in-house solution that aims to streamline **GHE** repository generation and **Python** project templating on disk

CNCF / THE LINUX FOUNDATION | MENTEE   San Francisco, CA | March 2023 - May 2023

Technologies: *Golang, Bash, Kubernetes*
- Pioneered 100% coverage of distributed tracing with **OpenTelemetry** on **Cluster API - GCP** production codebase

SHOPIFY | PRODUCTION ENGINEER INTERN   Toronto, ON | May 2022 – Aug 2022

Technologies: *Kubernetes, Go, Apache Kafka, GCP, Ruby, DataDog, Splunk, Bash, Terraform*
- Reduce **Kafka** memory consumption by 20% with multiple upgrades on critical systems
- Saving 150% deployment time by building an in-house **Kubernetes Controller** to parallelize rollout of global-scale 700+ **Kafka** brokers

VIETTEL NETWORKS | CLOUD ENGINEER INTERN   Hanoi, Vietnam | May 2021 - Aug 2021

Technologies: *Kubernetes, Jenkins, Docker, Ansible, Bash, Go, PostgreSQL, KubeSphere*
- Targeted 50% cut in operation costs by migrating VM-based **PostgreSQL** to **Crunchy Data's Kubernetes Operator**
- Managed full lifecycle of **cloud-native** applications and **Kubernetes** resources via **KuberSphere**

VIETTEL IDC | SYSTEM ENGINEER INTERN   Hanoi, Vietnam | Jan 2021 – April 2021

Technologies: *Docker, Ansible, Python, Bash, QEMU*
- Simulated production use cases by launching & administrating *multinode* **OpenStack** deployments.
- Integrated **Prometheus** and **Grafana** to enhance detection of abnormal patterns from active virtual machines
- Implemented a distributed **Ceph** deployment with **OpenStack** to provision fault-tolerant block storage devices

GOLDENGATE CORP. | SOFTWARE DEVELOPER INTERN   Hanoi, Vietnam | Sep 2020 – Dec 2020

Technologies: *NodeJS, Express, React, React Native, MariaDB, MongoDB, Redis*
- Developed the **server-side** for an e-commerce platform resulted in production launch
- Solved critical vulnerabilities on production application including **SQL injection** and **source code obfuscation**

PROJECTS

SECURE FILE TRANSFER PROTOCOL ⬀   PYTHON, PYCRYPTODOME

- Developed a reliable file transfer protocol over **TCP/IP**, featuring *remote file management*, and *cryptographically protected communication*

PRESENTATION AT OPENINFRA DAYS ASIA 2021 ⬀

- Represented Viettel Network in sharing the progress on **"Migrating PostgreSQL to Kubernetes"**

SUPER SIMPLE TO-DO APP ⬀   EXPRESS, NODEJS, JENKINS, ANSIBLE, DOCKER, MONGODB ATLAS

- Built a simple **RESTful API** backed by **MongoDB** on **AWS** and managed by **CI/CD Jenkins** pipeline on local VMs

TECHNICAL SKILLS

Languages: Java, Python, Golang, Bash, JavaScript, Ruby
Infrastructure: Kubernetes, OpenStack, AWS, Digital Ocean, GCP, Docker, Terraform, Ansible, Apache Kafka
Certificates: CodePath Cybersecurity, AWS Solutions Architect Associate