

## EDUCATION

---

- **University of Science, Ho Chi Minh City**  
*Bachelor in Computer Science, Honors Program for talented students* 2014 – 2018

## WORKING EXPERIENCE (5 years, 11 months)

---

- **Zalo** Oct 2021 - Present (2 years)  
Senior Software Engineer - Zalo Technical Group - Security & Operations team
  - **Security Operation Center (SOC):** Build SOC from scratch that processes billions of security events daily. Spend most of the time optimizing an Elasticsearch cluster that holds around 150 billion documents.
  - **Web Application Firewall:** Develop a public-facing web application firewall to protect important web pages.
  - Mentor in Zalo Tech Fresher 2022. Completed Zalo - Fulbright Leadership Development Program 2022.
- **Tiki** Dec 2020 - Oct 2021 (11 months)  
Software Development Engineer I - Marketplace Department
  - **Seller Operation team:** Extend backend APIs to handle complex and fast-growing e-commerce businesses.
- **VNG Cloud** May 2019 - Mar 2021 (1 year, 10 months)  
Software Engineer - Cloud Call Center
  - **Key team member:** Support other teams and customers as well as maintain, update, design, and implement new features and train new members for the product.
  - **Call Routing:** Build a virtual agent that routes inbound calls to the correct agent or group of agents based on voice interaction instead of key presses.
  - **Others:** Best employees of the quarter (Q4/2019, Q3/2020). Report several security issues to others.
- **Vietnix JSC** Mar 2017 - Apr 2018 (1 year, 2 months)  
System Intern - R&D
  - **SIEM project:** Configure OSSEC agent and AlienVault OSSIM by writing alert rules using regex.
  - **OpenStack and OpenNebula:** R&D project for use as a public cloud service.
  - **WHMCS:** Write a provisioning module in PHP for WHMCS to integrate with OpenNebula.

## OPEN SOURCE PROJECTS

---

- **WifiUnlocker:** Door access control system using Raspberry Pi. <https://github.com/baonq-me/WifiUnlocker>
- **FreeSwitch:** Help FreeSwitch download files from AWS S3 service using AWS Signature version 4.

## SKILLS / EXPERIENCE

---

- **Languages:** Primarily use Java with familiarity in Lua, Python, SQL, limited experience in Go.
- **Technical Skills:** Linux (CentOS/Ubuntu), Nginx, Graylog, MySQL/MongoDB, Elasticsearch, Kafka, VictoriaMetrics/Grafana, FreeSwitch, OpenStack/OpenNebula/Proxmox, Ceph, Arduino/Raspberry Pi.
- **Proficient Areas:** Server hardware, Cloud infra, VoIP, Network Troubleshooting, Microservice, Web backend.

## HOBBIES

---

- Research computer science topics, focusing on design and concepts of protocols and distributed systems.
- Doing electronic projects using Arduino/Raspberry Pi. Operate rack servers at both home and a tier-3 Datacenter for personal research purposes.

## SOCIAL ACTIVITIES

---

- Organizing a full-day tech event named Arduino Day yearly (2015-2019, 2023) that attracts few-hundreds of people.
- Speak at BarCamp Saigon, Young Makers Day, Arduino Day, FOSSASIA Open Tech Summit, VNG Security Day,...
- Attended project: Thay thuoc dong hanh - Certificate awarded by Ministry of Science and Technology for providing technical support in the "Thay thuoc dong hanh" network supporting over 500K Covid-19 F0 patients since Aug 2021.

## REFERENCES

---

<https://hackaday.com/2019/06/06/fablab-saigon-celebrates-a-belated-arduino-day/>  
<https://superuser.openinfra.dev/articles/viet-openinfra-user-group-holds-its-30th-meetup/>  
<https://thanhvien.vn/arduino.html>