

# Quoc-Bao Nguyen

Engineer

github.com/baonq-me/resume (Mar 2025)

## EDUCATION

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### University of Science, Ho Chi Minh City

- *Bachelor in Computer Science, Honors Program for talented students* 2014 – 2018  
*Graduate thesis: Research and Application of the Homomorphic Encryption Scheme Boneh–Goh–Nissim*

## WORKING EXPERIENCE (7 years, 4 months)

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- **Zalo** Oct 2021 - Present (3 years, 5 months)  
*Senior Software Engineer - Zalo Technical Group - Security & Operations*
  - **Security Operation Center (SOC):** Build SOC from scratch that processes/stores billions of security events daily. Build Web app firewall from scratch. Stack: Nginx+lua, Kafka, ElasticSearch, PostgreSQL, Grafana.
  - Mentor, Zalo Tech Fresher 2022. Zalo - Fulbright Leadership Development Program 2022, first batch. Top 20 ZA Challenge 2023 (top 2%). Most beloved Technical Sharing Series 2024 for a topic related to ARM server CPU.
- **Tiki** Dec 2020 - Oct 2021 (11 months)  
*Software Development Engineer I - Marketplace Department*
  - **Seller Operation:** 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 operators based on voice interaction.
  - **Awards:** 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 solution for use as a public cloud service.
  - **WHMCS:** Write a provisioning module in PHP for WHMCS to integrate with OpenNebula.

## OPEN SOURCE PROJECTS

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- **cve-search:** Contribute bug fixes and improvements for 5.0 release. <https://github.com/cve-search/cve-search>
- **FreeSwitch:** Help FreeSwitch download files from AWS S3 service using AWS Signature version 4.

## SKILLS / EXPERIENCE

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- **Languages:** Primarily use Java, familiarity in Lua, Python, SQL, limited experience in Go.
- **Technical Skills:** Linux, Nginx, Graylog, MySQL/MongoDB, ElasticSearch, Kafka, VictoriaMetrics/Grafana, FreeSwitch, Proxmox/OpenNebula, K8s (via snap) + Wireguard, Ceph, Arduino/Raspberry Pi.
- **Proficient Areas:** Server hardware (compute/network/storage), Cloud, low latency GPU infer at large scale, VoIP.

## HOBBIES

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- Research computer science topics, focusing on design and concepts of protocols and distributed systems.
- Doing electronic projects using Arduino/Raspberry Pi. Owner of physical rack servers and a QSFP28 Cisco switch.

## SOCIAL ACTIVITIES

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- Organize a full-day tech event named Arduino Day yearly (2015-2019, 2023) that attracts hundreds of people.
- Speak at BarCamp Saigon, Arduino Day, FOSSASIA Summit, VNG Security Day, OpenInfra Day (organizer team),...
- 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.
- Certificate from Vietnam Association for Information Processing for contributions to Vietnam OSS community, 2024.

## REFERENCES

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<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>