

Quoc-Bao Nguyen

Engineer

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

EDUCATION

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, 7 months)

- **Zalo** Oct 2021 - Present (3 years, 8 months)
Senior Software Engineer - Zalo Technical Group - Security & Operations
 - **Security Operation Center (SOC):** Build SOC from scratch that processes/stores 4 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 CPUs.
- **Freelance** Feb 2024 - Feb 2025 (1 year)
Run large-scale, distributed AI inference apps on Polkadot-based blockchain
- **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:** Maintain codebase. Design and implement new features and train new members.
 - **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). Reported high-severity security issues.
- **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.
 - **R&D:** Working on solutions for use as a public cloud service on OpenStack/OpenNebula with WHMCS.

OPEN SOURCE PROJECTS

- **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

- **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, VoIP, large-scale GPU operation using H200s

HOBBIES

- Research computer science topics. Play with rack servers and a QSFP28 Cisco switch. Building 2 server racks at home.

SOCIAL ACTIVITIES

- Lecturer (Cloud) in Viettel Digital Talent 2025 program.
- Certificate from Vietnam Association for Information Processing for contributions to Vietnam OSS community, 2024.
- Attended project: Thay thuoc dong hanh - Certificate awarded by Ministry of Science and Technology.
- 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),...

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://thanhnien.vn/arduino.html>