

HUYNH VAN QUANG

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Singapore

BACKGROUND & OBJECTIVES

I am a generalist programmer with solid foundation in Computer Science and focuses on algorithmic skills. I have working experiences with full stack web development and seek for opportunities to work on complex distributed systems operating at large scale.

EXPERIENCES

[Shopee](#), Garena Labs - Software Engineer

May 2016 - present, Singapore

Shopee is an emerging mobile online shopping platform targeting South East Asia market.

- ❖ Used profiler and caching techniques to optimize checkout endpoint by 8-12 times, reducing response time from seconds to sub 250ms, serving millions of API calls per day.
- ❖ Investigated and resolved complicated production issues such as Unicorn workers stuck in deadlock, tasks in distributed task queues being lost or overdue.
- ❖ Integrated with 3rd-party Logistics providers API, served 10s of millions transactions last year
- ❖ Develop command-line utilities calling APIs from Gitlab, JIRA, Hangout, Slack etc...

Kloudsec & GOM, Nubela Corp - Software Engineer

Dec 14 - Apr 16, Singapore

[Kloudsec](#) is a cloud reverse proxy and CDN that helped non-technical bloggers or online shop owners enhance speed, reliability and security of their websites. Notable work includes:

- ❖ Wrote a module to acquire DV SSL certificates from Let's Encrypt, keeping 250+ websites secure. I developed a strategy to renew/acquire SSL certificates, maximizing limited quota allowance.
- ❖ Wrote an asynchronous actor-based web crawler with different configurable quota and throttling constraints, fetched and stored ~10k pages on disk.

[Gom](#) is a VPN solution that just works, #1 result for 'VPN' searches on Chrome Web Store in 2015

- ❖ Setup monitoring system (ELK stack), collect and index ~200MB of logs per day
- ❖ Maintained API services, add referral feature
- ❖ Developed GOM Android UI on top of a NDK OpenVPN client (discontinued)

National University of Singapore - Student/TA

Jan 13 - Sep 13, Singapore

- ❖ Co-developed a probably first-of-its-kind segmented hybrid HTTP & P2P file transfer library. Our implementation runs completely inside browsers thanks to latest advancements in web standards of the time. Won **First Prize** and **Popular Choice Award** at a hackathon [Hack&Roll 2014](#)
- ❖ Worked as Teaching Assistant for course CS2106: Introduction to Operating System
- ❖ Wrote a CUDA-to-OpenCL transpiler for my final year project

TECHNICAL SKILLS

- ❖ Python at proficient level, good understandings of its internals, used extensively in daily work
- ❖ Exposure to many web frameworks, notably Django/Flask, NodeJS, ReactJS/Redux
- ❖ Experiences with SQL and NoSQL databases (MySQL, PostgreSQL, Redis)
- ❖ Worked with SOA/Microservices systems
- ❖ Familiar with AWS (EC2, S3, RDS, Kinesis, ELB)
- ❖ Server admin skills; deployment toolchains (Ansible, Docker, Jenkin CI)
- ❖ Linux and Vim enthusiast, tinkerer with habit of automating common workflows.
- ❖ Knowledge of distributed databases and systems

EDUCATION

- ❖ Bachelor of Computing in Computer Science, National University of Singapore - July 2014

Notable courses: Data Structures & Algorithms (Accelerated), Design & Analysis of Algorithms, Parallel & Distributed Algorithms, Database System, Intro to Operating System.

- ❖ **MOOCs:** Cloud Computing Concepts (by University of Illinois UC), Design of Computer Programs (by Peter Norvig). I have interests in Distributed Computing and love to discuss this topic.