

# Walter Kong

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## EXPERIENCE

### **Shopee**, *TechOps Intern, Singapore, May 2020 - Jan 2021*

- Shopee operates the leading e-commerce platform in Southeast Asia and Taiwan
- Reduced container resource wastage by 33.3% via automated statistical methods
- Developed full-stack platform for all teams to monitor and scale services
- Improved up time by resolving SRE issues

### **National University of Singapore**, *Teaching Assistant, Singapore, Various Semesters*

- CS2040C (Fall 2020 - Fall 2021): Tutored 65 students on Algorithms and Data Structures in C++
- CS3243 (Fall 2020): Provided feedback to 204 students on Artificial Intelligence assignments

### **Competitive Programming**, *Various Platforms*

- CS3233 (Spring 2021): A grade and won SGD160 in weekly ICPC style competitions
- Shopee Best Coder Challenge (Oct 2019): Won Championship with [most accurate solution](#) to keyword classification, fraud detection
- Online Platforms: [Top 200](#) on Kattis, Advent of Code [2020](#), [LeetCode](#)

### **Defense Science Organization**, *Research Intern, Singapore, Jan 2019 - Jul 2019*

- DSO conducts research and creates solutions used by Singapore Armed Forces
- Developed high performance (95% F1 score) end-to-end unsupervised model for anomaly detection with Deep Learning and NLP techniques

## EDUCATION

### **National University of Singapore**

*Bachelor of Engineering (Honors) in Computer Engineering, Graduating in May 2023*

## SKILLS

### **Languages**

Python • Go • C++ • Java • JavaScript • SQL • HTML • CSS • Markdown

### **Libraries, Frameworks and Tools**

Docker • Gin • GORM • React • Ant.D • jQuery • PostgreSQL • Arduino • Vivado • Keras

## PROJECTS

**HomeLab** | Media server, file sharing and other projects running on Proxmox and Docker

**Algorithm Visualisation** | [Laravel stack](#) for university module of 250 students every semester

**Telegram Bot** | [Python API](#) in Heroku to submit proofs and display leaderboard for [marathon event](#)

**Database Join** | Toy Java program supporting Sort-Merge, Hash, Block Nested Loop Join and Aggregates

**Robotic Mapping** | [Arduino](#) + [Pi](#) bot using RPLIDAR with SLAM, RTOS scheduling and GPIO for PWM

## MISC

### **Leadership**

- Served as Logistics & Operations IC of **NUS Mountaineering**: initiated events [engaging 9,000 views](#), [upgraded SGD1,000 of logistics](#), summited [Baden-Powell](#) Peak, [trained](#) summit teams 3 days a week

### **Work Authorization**

- Singaporean Citizen; Eligible for H-1B1-Singapore Visa, which has separate quota from H-1B pool