Nelson Cheung

(Another Name: Junyu Zhang or **Kwanyu Cheung**)

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Guangzhou, 510330, P. R. China   **[Email]**

Education

Sun Yat-sen University	2022 – Present
Ph.D. in Computer Science and Technology supervised by Pengfei Chen	*Guangzhou, China*
Sun Yat-sen University	2018 – 2022
B.E. in Computer Science and Technology	*Guangzhou, China*

Research Experience

Research Intern   July 2021 – July 2022
Huawei 2012 Lab   *Shenzhen, China*
- Designed security modules for the SRE team in Huawei Cloud, leveraging Linux kernel technologies.
- Developed anomaly detection algorithms and interception mechanisms to enhance system security.

[Book (in Chinese)] A Concise Tutorial of Operating System   March 2021 – July 2021
Sun Yat-sen University   *Guangzhou, China*
- Authored an experimental tutorial on operating systems under the supervision of Prof. Pengfei Chen.
- Adopted in Sun Yat-sen University's operating systems courses since 2021.
- Accumulated over 400+ GitHub stars, reflecting its impact in the community.

Publication

All my research is also attributed to my beloved supervisors, Prof. Pengfei Chen and Dr. Zilong He, along with my brilliant co-authors.

[Code] [PDF] Junyu Zhang, Pengfei Chen*, Zilong He, Hongyang Chen, and Xiaoyun Li. 2024. Real-Time Intrusion Detection and Prevention with Neural Network in Kernel Using eBPF. In *2024 54th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)*. IEEE, 416–428.

Invited Talks

[Video (in Chinese)] In-Kernel Intelligence with eBPF.   April 17, 2024
Xi'an University of Posts & Telecommunications   *Xi'an, China*

Awards & Honors

Sun Yat-sen University Outstanding Student Scholarship First Prize
Sun Yat-sen University   *2019*
Sun Yat-sen University Outstanding Student Scholarship Second Prize
Sun Yat-sen University   *2020*
National Computer System Ability Competition and Operating System Design Third Prize
National College Computer Education Research Association   *2021*
Guangdong Everbright Bank Scholarship
Sun Yat-sen University   *2022*
Sun Yat-sen University Outstanding Graduate Student Scholarship First Prize
Sun Yat-sen University   *2022-2024*

Teaching Experience

Teaching Assistant: C++ Programming (Instructor: Wuhui Chen)   Spring 2023 – Present
Sun Yat-sen University   *Guangzhou, China*

Teaching Assistant: C Programming (Instructor: Wuhui Chen)   Fall 2022 – Present
Sun Yat-sen University   *Guangzhou, China*

Teaching Assistant: Operating Systems (Instructor: Pengfei Chen)   Spring 2021
Sun Yat-sen University   *Guangzhou, China*