

CHENG-CHIEH (JACK) LIN

blueskyson1401@gmail.com | github.com/blueskyson | jacklinweb.github.io

EDUCATION

University of Southern California
Master of Science in Computer Science

Los Angeles, CA
Expected May 2026

National Cheng Kung University
Bachelor of Science in Computer Science and Information Engineering — GPA 4.0/4.3

Tainan, Taiwan
Sept 2018 - June 2022

EXPERIENCE

CyberSoft Digital Services Corp.
Backend Engineer

Taipei, Taiwan
June 2022 - Apr 2024

- Developed Got-Your-Point, a points marketing system that uses blockchain and cloud-native technology to carry out real-time point transactions, serving 1,500+ small businesses.
- Performed system design for in-app subscription flows for Android and iOS, integrating in-app purchases into pre-existing payment methods like credit cards and ATM transfers. Tripled the number of paying users.
- Developed EventHub, a platform for smart decision-making that achieves marketing automation by processing over 1M+ transactional messages daily.
- Implemented and managed SaaS infrastructure on Microsoft Azure using Ansible, Jenkins, and Terraform. Monitored 4M+ of daily SaaS logs and managed alerts using the ELK stack.

NTU Consensus Labs
Researcher

Taipei, Taiwan
Jan 2023 - June 2024

- Conducted research on security issues in DeFi and DAO, analyzing 50+ post-mortems to identify attack vectors and suggest countermeasures. Evaluated the effectiveness of 19 open-source tools in detecting real-world vulnerabilities. Finalized the research into 2 publications at IEEE conferences.

PROJECTS

Fibdrv - Linux Kernel Module for Fibonacci Sequence

Mar 2022 - May 2022

- Developed a character device for calculating the Fibonacci sequence, capable of computing up to F_{188795} .
- Implemented Fast-Doubling to minimize computations. In the performance evaluation, it took 1.8ms to calculate F_{50000} using the Schönhage-Strassen algorithm, 45ms to use the Karatsuba algorithm, and 200ms to use addition.
- Utilized the math relationship between the Fibonacci sequence and the golden ratio to implement in-place memory allocation.

Organization Owner for tldr-pages/tldr

Aug 2021 - present

- Co-lead the project with organization members and jointly reviewed 1,000+ pull requests.
- Improve the maintenance workflow and assist new contributors in participating in the project.

PUBLICATIONS

- C. Lin, C. Tsai, and S. Liao, "Incident Analysis of Decentralized Finance," in 2024 IEEE International Conference on Blockchain and Cryptocurrency, Dublin, Ireland, pp. 413-415.
- C. Tsai, C. Lin and S. Liao, "Unveiling Vulnerabilities in DAO: A Comprehensive Security Analysis and Protective Framework," in 2023 IEEE International Conference on Blockchain, Danzhou, China, pp. 151-158.

SKILLS

Languages	C, C++, C#, Python, JavaScript, HTML, SQL, Go
Framework	ASP.NET, Vue.js, Linux Kernel Module, Qt, FreeRTOS, Unity, MPI
Tools	Docker, Ansible, Jenkins, Terraform, Nginx, ELK Stack, Microsoft Azure