

Songlin Jiang

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🐦 [HollowM186](#) • [HollowMan6](#) • Last updated on November 4, 2023

My academic pursuits and passion converge within the realms of improving **computer systems**, **networks**, **databases**, and also their associated **security** dimensions. I'm a free software enthusiast as well. In my spare time, I maintain several open source projects and contribute to many others.

Education

M.Sc. in SECCLO Erasmus Mundus, *Aalto University* (4.93/5) 2022 – 2024
Specialization: **Security and Cloud Computing**

M.Sc. in SECCLO Erasmus Mundus, *Technical University of Denmark (DTU)* 2023 – 2024
Specialization: **Reliable Distributed Systems**

Exchange Student, *University of Leeds* Spring 2020

B.Eng. in Computer Science & Technology (Honors), *Lanzhou University* (91/100) 2018 – 2022
Thesis: *A Short-Term Wind Speed Multistep-Ahead Hybrid Prediction Model based on ICEEMDAN and Prophet-GRU-NN*
Supervisor: *Prof. Chao Ren*

Experience

Developer Relations Engineer, *Enclave* (with [Prof. Sebastian Gajek](#) on confidential computing) Jun 2023 – Present

VR Browser Developer, *Igalia* ([Wolvic](#), ex. Mozilla Firefox Reality) Jun 2023 – Present

HPC Developer Intern, *CSC - IT Center for Science* May 2023 – Aug 2023
Help develop the GPU monitoring service for HPC clusters (NVIDIA and AMD GPUs, including LUMI)
Develop the Documentation GPT chatbot service using llamaIndex, Langchain and Redis
LUMI ranked 3rd around the world and 1st in Europe at HPC supercomputer TOP500 list by 2023

CNCF LFX Mentorship, *Kubescape* (Kubernetes security platform) Mar 2023 – May 2023

Rhino-Bird Open-Source Training Program 2022, *Tencent* (Kona JDK) July 2022 – Sep 2022

Google Summer of Code 2022, *MIT CSAIL & Google* ([Blockly](#), web-based program editor) May 2022 – Sep 2022

Summer of Bitcoin 2022, *Cryptoanarchy Debian* (Bitcoin related Debian packages) May 2022 – Aug 2022

RL Open Source Fest 2022, *Microsoft Research NYC* ([Vowpal Wabbit](#), ML library) May 2022 – Aug 2022

Open Source Intern, *Institute of Software, CAS* ([openEuler](#), Linux distribution) Jan 2022 – Jul 2022

Google Summer of Code 2021, *openSUSE* ([IBus](#), input method framework) Jun 2021 – Aug 2021

OSPP Summer 2021, *openEuler* (Developed an ISO writer using QT and C++) Jul 2021 – Sep 2021

OSPP Summer 2020, *Emacs Application Framework* ([EAF](#), work with [Yong Wang](#)) Jul 2020 – Sep 2020

Summer of Code 2020, *Alibaba* ([Arthas](#), Java diagnostic tool) Jul 2020 – Aug 2020

Certificates & Honors & Awards

SECCLO Erasmus Mundus Scholarship	2022 – 2024
<small>Full-ride scholarship, including tuition and living costs</small>	
Aalto University School of Science Dean's Incentive Scholarship	2023
Cloud Captains in Linux Foundation Training (LiFT) Scholarship (China)	2022
Huawei Cloud Certified Developer Associate in Internet of Things (HCCDA - IoT)	2022
Certified Kubernetes Administrator (CKA), CNCF	2022
Recognized Tencent Open Source Contributor	2022
Intern of Excellence Award at Tencent	2022
Intern of Excellence & Star of Open Source Award in openEuler Open Source Internship	2022
China Ministry of Education & Huawei "Intelligent Base" Future Star Scholarship	2021
Software Design Engineer, China Qualification of Computer and Software Professional	2021
Excellent Student Award in Baidu Software Engineering Training Camp	2021
Academic Aces in Linux Foundation Training (LiFT) Scholarship (China)	2020
CATTI Level 3 (English & Chinese) Translator	2020
Best Paper Award in Lanzhou University Summer Social Practice Report	2020
<small>Paper: Research on the Functionality and Optimization of Urban Communities in China During COVID-19 in 2020</small>	
Award in openEuler University Developer Competition	2020
China Scholarship Council Outstanding Undergraduate International Exchange Scholarship	2019
Google InnoCamp Hangzhou BoostMakers – TensorFlow Boost	2019
Excellent Project Award in Lanzhou University Innovation and Entrepreneurship Plan	2019
<small>Project: Renaissance – AI + Dunhuang Art, supervised by Prof. Qingguo Zhou</small>	
Nine Lanzhou University undergraduate scholarships	2018 – 2022
<small>3 x scholarship for academic excellence, 5 x scholarship for innovation and entrepreneurship projects, 2020 scholarship for IELTS test fee</small>	

Open Source Repositories

1.5k+ GitHub followers, 54.7k+ GitHub stars across all of the following selected repositories:

1. kubescape/kubescape — ★9k — Kubernetes security platform	2023
2. Igalia/wolvic — ★629 — Immersive VR Browser	2023
3. VowpalWabbit/vowpal_wabbit — ★8.3k — Machine Learning System	2022
4. debian-cryptoanarchy/cryptoanarchy-deb-repo-builder — ★135 — Bitcoin Packages for Debian	2022
5. HollowMan6/mdbook-pdf — ★105 — MdBk backend for PDF Generation	2022
6. mit-cml/workspace-multiselect — ★5 — Blockly Multi-Select Plugin	2022
7. openSUSE/Customize-IBus — ★47 — Full customization of IBus UI	2021
8. openSUSE/IBus-Theme-Hub — ★19 — IBus Themes CSS	2021
9. openSUSE/IBus-Theme-Tools — ★13 — IBus Theme Generator	2021
10. alibaba/arthas — ★33.6k — Java Diagnostic Tool	2020
11. emacs-eaf/emacs-application-framework — ★2.8k — Emacs Application Framework	2020
12. HollowMan6/TinyML-ESP32 — ★105 — TinyML Programs for ESP32	2020

Invited Talks

1. Virtual Network Systems among Containers, Aalto University Secure Systems Demo Day	2023
2. Multi-Select Plugin, Google Blockly Summit	2023
3. Native CSV Parser, Microsoft Research NYC Seminar (RLOSfest)	2022
4. Summary of my Open Source Internship (in Chinese), openEuler Excellent Intern Seminar	2022
5. Update Notification Program in Python (in Chinese), openEuler University Developer Competition	2021
6. Summary of my Contribution to Arthas (in Chinese), Alibaba Summer of Code Presentation	2020

Professional Activities

openSUSE Member	2021 – Present
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Software Copyright

- Hollow Software for Smartly Memorizing Words [CN 2020SR0839716](#) 2020
- Hollow Software System for Sport Center Management [CN 2020SR0839709](#) 2020
- Hollow Software for Jack Compiler [CN 2020SR0839702](#) 2020
- Hollow Software for Picture & Video Information Hiding En-Decryption [CN 2020SR0079950](#) 2020
- Face Recognition Access Control System [CN 2019SR1388115](#) 2019

Publications [\[Google Scholar, 2 citations with h-index of 1\]](#)

2019.....

1. *Voting System Based on Wechat Pay*
Songlin Jiang
Computer Engineering & Software 2019

Skills

Programming Go, Rust, Java, Kotlin, JavaScript, C++, C, Python, HTML, Shell, SQL ...
Frameworks GitHub Actions, Flutter, React, Viper, Selenium, TensorFlow, scikit-learn ...

Courses

Some top-quality courses I've taken:

- Program Analysis, DTU Fall 2023
- Program Verification, DTU Fall 2023
- Programming Parallel Computers, Aalto University Spring 2023
- Platform Security, Aalto University Spring 2023
- Cloud Software and Systems, Aalto University Fall 2022
- Multimedia Services in Internet, Aalto University Fall 2022
- Designing and Building Scalable Web Applications, Aalto University Fall 2022
- Network Security, Aalto University Fall 2022
- Formal Languages and Finite Automata, University of Leeds Spring 2020