Songlin Jiang

✓ hollowman@opensuse.org
 ✓ hollowman6.github.io
 ✓ in songlin-jiang
 ✓ HollowM186
 ✓ HollowMan6
 Last updated on May 14, 2024

I find immense joy in pushing my boundaries by tackling complex issues that have the potential to positively impact the public. My fervor converges with enhancing **computer systems**, **networks**, **databases**, and their corresponding **security** aspects, which allows me to have impacts on computing for both the environment (**greener while efficient**) and people (**faster while reliable**). Additionally, I am a passionate **free software advocate**. During my leisure time, I maintain several open-source projects and contribute to many others.

Education

M.Sc. in SECCLO Erasmus Mundus, Aalto University (5/5)

08/2022 - 07/2024

- Specialization: Security and Cloud Computing
- Thesis: Real-Time GPU Usage Alert Service for Pre-Exascale HPC Clusters
- Supervisor: Prof. Bo Zhao

M.Sc. in SECCLO Erasmus Mundus, Technical Uni. of Denmark (DTU) (10.6/12) 08/2023 – 07/2024

- Specialization: Reliable Distributed Systems
- Thesis: Real-Time GPU Usage Alert Service for Pre-Exascale HPC Clusters
- O Supervisor: Prof. Bernd Dammann

No Degree (Exchange Abroad), *University of Leeds* (Pass, no grade due to COVID-19) 01/2020 – 06/2020 • Specialization: **Computer Science**

B.Eng. in Computer Science & Technology (Honors), Lanzhou University (91/100) 09/2018 - 06/2022

- Thesis: A Short-Term Wind Speed Multistep-Ahead Hybrid Prediction Model based on ICEEMDAN and Prophet-GRU-NN
- Supervisor: Prof. Chao Ren

Experience

Mentor for Google Summer of Code 2024, MIT CSAIL & OpenSUSE (simultaneously) 05/2024 - 09/2024

- O Mentor Chang Min Bark for Updating the Multi-select Plugin in Blockly and Cross-testing Other Plugins
- O Mentor Jiamin Wang for Refactor Customize IBus with Modern Interface and Extensibility

Junior Application Specialist, *CSC - IT Center for Science* (master's thesis)

01/2024 - 07/2024

Implement the real-time GPU usage alert service for HPC clusters

Developer Relations Engineer, Enclaive (confidential computing, with Prof. Sebastian Gajek) 06/2023 - 05/2024

- O Create technical **documentation**, tutorials and content
- Manage channel to interact with the community and grow the customer base

Coding Experience 2023 I & II, Igalia (Wolvic, ex. Mozilla Firefox Reality)

06/2023 - 12/2023

- O Develop VR Browser, refactor Android deprecated methods
- O Address user issues. Implement UI, graphics, browser, and openXR related features
- \circ Contribute to the majority of the features available from v1.4.2 1.6

HPC Developer Internship, CSC - IT Center for Science

05/2023 - 08/2023

- 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/Qdrant

O Make improvements to the HPC web operating interface project Open OnDemand using Ruby on Rails LUMI ranked 3rd around the world and 1st in Europe at HPC supercomputer TOP500 list by 06/2023 **CNCF LFX Mentorship.** *Kubescape* (Kubernetes security platform) 03/2023 - 05/2023 Add packaging support for various package managers in Linux, macOS, and Windows Improve release CI by adding ARM64 binaries building and testing support (QEMU and cross compiling) Add support for Kubescape auto version bumping in other Kubescape-related repositories Enable Kubescape GitHub action to support code review based on generated SARIF report A blog post by Cloud Native Computing Foundation (CNCF) that introduces my work Rhino-Bird Open-Source Training Program, Tencent (Kona JDK) 07/2022 - 09/2022 Investigate keypairs generation for SM2 with JDK, compare performance and security of algorithms Google Summer of Code, MIT CSAIL & Google (Blockly, web-based visual program editor) 05/2022 - 09/2022 Create a plugin to allow selecting, dragging and manipulating multiple blocks at once for Google Blockly O Resolve the issue that had troubled the **Google Engineers** for a **decade** (since the Blockly project started) o @mit-app-inventor/blockly-plugin-workspace-multiselect now has an average of 50+ downloads per week **Summer of Bitcoin**, *Cryptoanarchy Debian* (Bitcoin related Debian packages) 05/2022 - 08/2022o Add Continuous Integration (CI) by investigating systemd support inside Docker with GitHub Actions • The chance to get into this internship in 2022: 83/20317 RL Open Source Fest, Microsoft Research NYC (Vowpal Wabbit, ML library) 05/2022 - 08/2022 Add native CSV parser support for the Vowpal Wabbit project in C++, 100% Test & Code Coverage Manage to make 10x performance improvement and is comparable to speed of original VW text format **Open Source Internship**, *Institute of Software*, *CAS* (openEuler, Linux distribution) 01/2022 - 07/2022o First to obtain 150 intern credits. Help solve 6 issues, related technologies include D-Bus, Glib, building Cloud Native Container images, Rust programming, Chrome DevTools Protocol, test case, RPM packaging One of the achievements mdbook-pdf now has an average of 100+ downloads per week **Google Summer of Code**, *openSUSE* (IBus, input method framework) 06/2021 - 08/2021 Add customizing themes feature for IBus in desktop environments, improve IBus settings support in GNOME O A blog post at **openSUSE News** that introduces my work GNOME extension Customize IBus now has an average of 100+ downloads per week **OSPP Summer**, *openEuler* (Developed an ISO writer using QT and C++) 07/2021 - 09/2021**OSPP Summer**, *Emacs Application Framework* (EAF, work with Yong Wang) 07/2020 - 09/2020 Add new features and address all kinds of issues using Emacs Lisp, Python, JavaScript, SQLite A blog post (in Chinese) about my work posted by Yong Wang (ManateeLazyCat) Summer of Code, Alibaba (Arthas, Alibaba's most starred project on GitHub, Java diagnostic tool) 07/2020 - 08/2020 Create Chinese and English interactive online tutorials for Arthas using Katacoda and Vue.js Coding part highlight: Support directly searching Class Loader by name instead of Hash Code in Java

A Wechat post (in Chinese) about my work posted by hengyunabc

Certificates & Honors & Awards

SECCLO Erasmus Mundus Scholarship (26/767) Full-ride scholarship, includes full tuition fee waiver, covers all living costs and travel expenses Travel Funding for Google Blockly Summit 2024 Recommended Talk for Google Blockly Summit 2023 2024 Recommended Talk for Google Blockly Summit 2023 Aalto University School of Science Dean's Incentive Scholarship 2023 Aalto University School of Science Dean's Incentive Scholarship Cloud Captains in Linux Foundation Training (LiFT) Scholarship (China) Cloud Captains in Linux Foundation Training (LiFT) Scholarship (China) Certified Kubernetes Administrator (CKA), CNCF 2022 Recognized Tencent Open Source Contributor 2023 Recognized Tencent Open Source Contributor 2024 2024 Recognized Tencent Open Source Award in openEuler Open Source Internship 2025 2026 2027 2028 Recognized Tencent Open Source Award in openEuler Open Source Internship 2029 2029 2029 2020 2030 2031 2031 2032 2034 2034 2035 2036 2036 2037 2038 2039 2030 204/347 Tearnsh Darticipated Jone, ranked 1st in final defense Star of Innovation Award in Alibaba T-head OCC Developers IoT Innovation Competition 2030 2040 2050 2060 2060 2070 2071 2071 2072 2073 2074 2076 2076 2076 2076 2076 2077 2077 2078 2079 2079 2070 207		
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Only 122/1268 got this award		2010
		2019
	Nine Lanzhou University undergraduate scholarships	2018 – 2022

 $3 \times \text{scholarship}$ for academic excellence, $5 \times \text{scholarship}$ for innovation and entrepreneurship projects, 2020 scholarship for IELTS test fee

Open Source Repositories

1.5k+ GitHub followers. 91.6k+ GitHub stars across all of the following selected repositories:

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1.	run-llama/llama_index ★31.6k	RAG Framework	2023
	Rank $\#69$ among all contributors with 4 commits, 417 lines of additions and 1	7 lines of deletions	
2.		Kubernetes Security Platform	2023
	Rank $\#10$ among all contributors with 40 commits, 745 lines of additions and	555 lines of deletions	
3.		Immersive VR Browser	2023
	Rank $\#7$ among all contributors with 144 commits, 9931 lines of additions and	4186 lines of deletions	
4.	VowpalWabbit/vowpal_wabbit ★8.4k	Machine Learning System	2022
	Rank $\#58$ among all contributors with 8 commits, 0 lines of additions and 0 lines		
5.	rust-headless-chrome/rust-headless-chrome $\star 2.1$ k	Chrome DevTools Protocol in Rust	2022
	Rank $\#13$ among all contributors with 6 commits, 81 lines of additions and 11	lines of deletions	
6.	ThibaultJanBeyer/DragSelect ★662	Multi-Select UI Library	2022
	Rank $\#6$ among all contributors with 3 commits, 213 lines of additions and 23	lines of deletions	
7.	debian-cryptoanarchy/cryptoanarchy-deb-repo-builder ★142	Bitcoin Packages for Debian	2022
	Rank $\#4$ among all contributors with 7 commits, 245 lines of additions and 22	lines of deletions	
8.	HollowMan6/mdbook-pdf ★138	MdBook backend for PDF Generation	n 2022
	Rank $\#1$ among all contributors with 42 commits, 3272 lines of additions and	594 lines of deletions	
9.	mit-cml/workspace-multiselect ★8	Blockly Multi-Select Plugin	2022
	Rank #1 among all contributors with 34 commits, 13072 lines of additions and	21697 lines of deletions	
10		Full Customization of IBus UI	2021
	Rank $\#1$ among all contributors with 355 commits, 43424 lines of additions an	d 30918 lines of deletions	
11	. HollowMan6/Wechat-Timed-Message ★23	GitHub action for WeChat Message	2021
	Rank $\#1$ among all contributors with 99 commits, 4139 lines of additions and	1718 lines of deletions	
12	. openSUSE/IBus-Theme-Hub ★20	IBus Themes CSS Hub	2021
	Rank $\#1$ among all contributors with 21 commits, 3190 lines of additions and	442 lines of deletions	
13	. openSUSE/IBus-Theme-Tools $★16$	IBus Theme Generator	2021
	Rank $\#1$ among all contributors with 104 commits, 8558 lines of additions and	4654 lines of deletions	
14	. alibaba/arthas ★34.8k	Java Diagnostic Tool	2020
	Rank $\#2$ among all contributors with 80 commits, 25191 lines of additions and	1543 lines of deletions	
15	. emacs-eaf/emacs-application-framework ★3k	Emacs Application Framework	2020
	Rank $\#5$ among all contributors with 49 commits, 3482 lines of additions and	1033 lines of deletions	
16	. HollowMan6/TinyML-ESP32 ★133	TinyML Programs for ESP32	2020
	Rank #1 among all contributors with 11 commits, 78393 lines of additions and	19530 lines of deletions	
17		Super Resolution Model	2020
	Rank #1 among all contributors with 23 commits, 21397 lines of additions and	1399 lines of deletions	

Invited Talks

Content, Link to the talk, and Date:

1. Virtual Network Systems among Containers, Aalto University Secure Systems Demo Day	06/2023
2. Multi-Select Plugin, Google Blockly Summit	06/2023
3. Native CSV Parser, Microsoft Research NYC Seminar (RLOSFest)	08/2022
4. Summary of my Open Source Internship, openEuler Excellent Intern Seminar	08/2022
5. Update Notification Program in Python, openEuler University Developer Competition	05/2021
6. Summary of my Contribution to Arthas, Alibaba Summer of Code Presentation	08/2020

Professional Activities

openSUSE Member 2021 – Present

Continued and substantial contributions to the openSUSE project. With voting rights and the ability to run for the openSUSE board

Reviewing.....

ACM SIGMOD 2023 Availability & Reproducibility

Research Projects

 Virtual Network Systems among Containers Prof. Tuomas Aura, Aalto University 	2023
 Hybrid Model for Stock Price Prediction Based on Time Series and Neural Network Dr. Weiwei Liu, Lanzhou University 	2021
 Renaissance – Use AI to Repair Old Photos Prof. Chao Ren, Lanzhou University 	2020
 Skin Cancer detection Method Based on CNN Dr. Xin Lv, Lanzhou University 	2020
○ Renaissance - AI + Dunhuang Art Prof. Qingguo Zhou, Lanzhou University	2019
 Self-balancing Bike Prof. Hongxin Li, Lanzhou University 	2019

Software Copyrights

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

Publications [Google Scholar, 2 citations with h-index of 1]

2019.....

Voting System Based on Wechat Pay
Songlin Jiang

Computer Engineering & Software 2019

Skills

Programming C++, Go, Rust, Python, C, Java, Kotlin, JavaScript, SQL, HTML, Bash, PHP, Ruby ...
 Frameworks Kubernetes, TensorFlow, Docker, PyTorch, Pandas, GitHub Actions, Flutter, React, QT ...
 DataBases PostgreSQL, MongoDB, Redis, InfluxDB, TimescaleDB, HBase, Hive, Hadoop, Spark ...

Courses

Some top-quality courses I've taken:

Program Analysis, 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	
O Designing and Building Scalable Web Applications, Aalto University	Fall 2022	
O Network Security, Aalto University	Fall 2022	
 Formal Languages and Finite Automata, University of Leeds 	Spring 2020	