Songlin Jiang

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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 developer**. During my leisure time, I maintain several open-source projects and contribute to many others.

Education

Ph.D. in Computer Science and Technology, Aalto University

08/2024 - 07/2028

- Specialization: Machine Learning Systems & Databases
- o Funding: Efficient Deep Neural Network Computation with Resource-Constrained Devices (DNN ReCoDe)
- O Supervisor: Prof. Mario Di Francesco, Thesis Advisor: Prof. Bo Zhao

M.Sc. Eng. in SECCLO Erasmus Mundus, Tech. Uni. of Denmark (DTU) (11.36/12) 08/2023 - 06/2024

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

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

08/2022 - 07/2024

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

No Degree (Exchange Abroad), University of Leeds (Pass, no grade due to COVID-19) 01/2020 – 06/2020

Host: School of Computer Science

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

- Specialization: Specialized Class for Fundamentals and Theories of Computer Science
- Thesis: A Short-Term Wind Speed Multistep-Ahead Hybrid Prediction Model based on ICEEMDAN and Prophet-GRU-NN
- O Supervisor: Prof. Chao Ren

Experience

Al Prompt Engineer, Outlier (create RLHF datasets for code generation)

01/2025

- O Crafting and answering questions related to computer science in order to help train Al models
- Evaluating and ranking code generated by AI models

OSPP Summer, *OceanBase* (add support for the IVFPQ vector index algorithm)

06/2024 - 10/2024

- Enable more vector indexing capabilities for OceanBase a multi-cloud **distributed SQL database**
- OceanBase is developed by Ant Group (Alibaba), supports the peak traffic in Double 11 Shopping Festivals

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
- Mentor Jiamin Wang for Refactor Customize IBus with Modern Interface and Extensibility

 Implement the real-time GPU usage alert service for HPC clusters Deploy Large Language Models (LLM) inference service in HPC environment with vLLM Founder, Hollow Software (company registered and established in Finland, business ID: 3369577-7) 06/2023 - Present Freelance for full-stack computer programming tasks Developer Relations Engineer, Enclaive (confidential computing, with Prof. Sebastian Gajek) 06/2023 - 05/2024 Create technical documentation, tutorials and content O 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 Develop VR Browser, refactor Android deprecated methods Address user issues. Implement UI, graphics, browser, and openXR related features \circ Contribute to the majority of the features available from v1.4.2 – v1.6 **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 - 05/2023O 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 o Create a plugin to allow selecting, dragging and manipulating multiple blocks at once for Google Blockly 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 250+ downloads per week **Summer of Bitcoin**, *Cryptoanarchy Debian* (Bitcoin related Debian packages) 05/2022 - 08/2022 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 500+ downloads per week

01/2024 - 07/2024

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

Google Summer of Code, openSUSE (IBus, input method framework) ○ Add customizing themes feature for IBus in desktop environments, improve IBus setti	06/2021 – 08/2021 ngs support in GNOME	
 A blog post at openSUSE News that introduces my work 		
O GNOME extension Customize IBus now has an average of 300+ 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) O Add new features and address all kinds of issues using Emacs Lisp, Python, Javas	07/2020 - 09/2020 Script, SQLite	
 A blog post (in Chinese) about my work posted by Yong Wang (ManateeLazyCat) 		
Superior of Code Aliberta (Add. Aliberta de la constitución de la cons	1) 07/2020 00/2020	

Summer of Code, *Alibaba* (Arthas, Alibaba's most starred project on GitHub, Java diagnostic tool) 07/2020 – 08/2020

- O Create Chinese and English interactive online tutorials for Arthas using Katacoda and Vue.js
- Ocoding part highlight: Support directly searching Class Loader by name instead of Hash Code in Java
- O A Wechat post (in Chinese) about my work posted by hengyunabc

Certificates & Honors & Awards

Travel Funding for Google Blockly Summit	2024 – 2025
Aalto University School of Science Dean's Incentive Scholarship	2023 – 2024
SECCLO Erasmus Mundus Scholarship	2022 – 2024
(26/767) Full-ride scholarship, includes full tuition fee waiver, covers all living costs and travel expenses Delegate of OpenSUSE Project for Google Summer of Code 2024 Mentor Summit Joint funded by Google and openSUSE Travel Support Program	2024
Travel Fund for The Linux Foundation Open Source Summit Europe 2024	2024
To speak at the LFX Mentorship Showcase Certified Kubernetes Security Specialist (CKS), CNCF	2024
Recommended Talk for Google Blockly Summit 2023	2024
Black Hat Europe 2023 Student 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 Only 30+ were issued globally by the end of 2022	2022
Intern of Excellence Award at Tencent	2022
Only 2/4000+ received all the 3 kinds of intern awards Intern of Excellence & Star of Open Source Award in openEuler Open Source Internship	2022
Only 3/150+ interns received both awards China Ministry of Education & Huawei "Intelligent Base" Future Star Scholarship	2021
Software Design Engineer, China Qualification of Computer and Software Professional	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
Paper: Research on the Functionality and Optimization of Urban Communities in China During COVID-19 in 2020	
Award in openEuler University Developer Competition	2020
(24/547 Teams) I participated alone, ranked 1st in final defense	
China Scholarship Council Outstanding Undergraduate International Exchange Scholarship	2019
(Only 1) Full covering of visa fees, traveling fees, and living costs, plus the host university exchange program tuition fee waiver	r agreement
Google InnoCamp Hangzhou BoostMakers – TensorFlow Boost	2019
Only 40+/2000+ got this certificate	
Excellent Project Award in Lanzhou University Innovation and Entrepreneurship Plan	2019
Only 122/1268 got this award	
Nine Lanzhou University undergraduate scholarships 20	018 – 2022
3 x scholarship for academic excellence 5 x scholarship for innovation and entrepreneurship projects 2020 scholarship for IELT	S test fee

Open Source Repositories

1.6k GitHub followers. 170.2k GitHub stars across all of the following selected repositories:

1.	deepspeedai/DeepSpeed	★ 40k	Training Framework	2025
	Rank #40 among all contributors with 12 commits, 119 lines of add	litions and	76 lines of deletions	
2.	zhuzilin/ring-flash-attention	★ 854	Ring Attention	2025
	Rank $\#3$ among all contributors with 4 commits, 124 lines of additi	ons and 23	3 lines of deletions	
3.	volcengine/verl	★ 12.9k	RLHF Framework	2025
	Rank $\#17$ among all contributors with 14 commits, 493 lines of add	litions and	291 lines of deletions	
4.	OpenRLHF/OpenRLHF	★ 7.8k	RLHF Framework	2024
	Rank $\#5$ among all contributors with 33 commits, 531 lines of additional contributors and $\#5$ among all contributors with 33 commits, 531 lines of additional contributors.	tions and I	199 lines of deletions	
5.	run-llama/llama_index	★ 44k	RAG Framework	2023
	Rank $\#93$ among all contributors with 6 commits, 427 lines of additional contributors and 6 commits, 427 lines of additional contributors.	tions and 2	24 lines of deletions	
6.	kubescape/kubescape	★ 11k	Kubernetes Security Platform	2023
	Rank $\#9$ among all contributors with 40 commits, 745 lines of additional contributors.	tions and 5	555 lines of deletions	
7.	Igalia/wolvic	★ 903	Immersive VR Browser	2023
8.	$VowpalWabbit/vowpal_wabbit$	★ 8.6k	Machine Learning System	2022
	Rank $\#58$ among all contributors with 8 commits, 0 lines of addition	ns and 0 li	nes of deletions	
9.	rust-headless-chrome/rust-headless-chrome	★ 2.7k	Chrome DevTools Protocol in Rust	2022
	•			
	Rank $\#12$ among all contributors with 7 commits, 87 lines of additi	ons and 12		
10	Rank #12 among all contributors with 7 commits, 87 lines of additional contributions. ThibaultJanBeyer/DragSelect			2022
10		★ 763	lines of deletions Multi-Select UI Library	2022
	. ThibaultJanBeyer/DragSelect	★ 763 ons and 23	2 lines of deletions Multi-Select UI Library 3 lines of deletions	2022 2022
	. ThibaultJanBeyer/DragSelect Rank $\#7$ among all contributors with 3 commits, 213 lines of additi	★763 ons and 23 r ★144	Ilines of deletions Multi-Select UI Library Ilines of deletions Bitcoin Packages for Debian	
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Rank #1 among all contributors with 104 commits, 8558 lines	s of additions and 4654 lines of deletions	
18. alibaba/arthas	★36.7k Java Diagnostic Tool	2020
Rank $\#2$ among all contributors with 80 commits, 25191 lines	s of additions and 1543 lines of deletions	
19. emacs-eaf/emacs-application-framework	★3.3k Emacs Application Framework	2020
Rank #5 among all contributors with 49 commits, 3482 lines	of additions and 1033 lines of deletions	
20. HollowMan6/TinyML-ESP32	★175 TinyML Programs for ESP32	2020
Rank $\#1$ among all contributors with 11 commits, 78393 lines	s of additions and 19530 lines of deletions	
21. HollowMan6/SRMD-Pytorch	★26 Super Resolution Model	2020
Rank #1 among all contributors with 23 commits 21397 lines	s of additions and 1399 lines of deletions	

Invited Talks

Content, Link to the talk, and Date:

1. Fully Automated Release and Code Review with CI/CD, Open Source Summit Europe	09/2024
2. Virtual Network Systems among Containers, Aalto University Secure Systems Demo Day	06/2023
3. Multi-Select Plugin, Google Blockly Summit	06/2023
4. Native CSV Parser, Microsoft Research NYC Seminar (RLOSFest)	08/2022
5. Summary of my Open Source Internship, openEuler Excellent Intern Seminar	08/2022
6. Update Notification Program in Python, openEuler University Developer Competition	05/2021
7. 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.....

- Annual Conference on Neural Information Processing Systems (NeurIPS) 2025
- O Neural Information Processing Systems (NeurIPS) 2025 Datasets & Benchmarks Track
- International Conference on Learning Representations (ICLR) 2025
- O International Joint Conference on Artificial Intelligence (IJCAI) 2025 Survey Track
- O IJCAI 2025 Special Track on AI for Social Good
- O International Joint Conference on Neural Networks (IJCNN) 2025
- Medical Imaging with Deep Learning (MIDL) 2025
- Student Research Workshop (SRW) at ACL 2025
- Workshop on Recent Advances in Time Series Foundation Models (BERT2S) at NeurIPS 2025
- Workshop on Mathematical Reasoning and AI (MATH-AI) at NeurIPS 2025
- Latinx in Al Workshop at NeurlPS 2025
- Workshop SoLaR at Conference on Language Modeling (COLM) 2025
- O Deployable Al Workshop (DAI) at AAAI Conference on Artificial Intelligence (AAAI) 2025
- O Multi-Agent AI in the Real World (MARW) Workshop at AAAI 2025
- O International Workshop on Al Governance (AIGOV) at AAAI 2025
- o Workshop on Deep Generative Model in Machine Learning: Theory, Principle and Efficacy at ICLR 2025
- Workshop on GenAl Watermarking at ICLR 2025
- O Workshop on Foundation Models in the Wild at ICLR 2025
- Workshop XAI4Science at ICLR 2025

- O International Conference on Green Artificial Intelligence and Industrial Applications (GreenAl 2025)
- o Compression Workshop at Conference on Neural Information Processing Systems (NeurIPS) 2024
- Safe Generative Al Workshop at NeurIPS 2024
- O NeurIPS 2024 Workshop on Bayesian Decision-making and Uncertainty (BDU)
- Latinx in Al Workshop at NeurIPS 2024
- O ACM Special Interest Group on Management of Data (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
 Hollow Software for Picture & Video Information Hiding En-Decryption 	CN 2020SR0079950
Face Recognition Access Control System	CN 2019SR1388115

Publications [Google Scholar, 173 citations with h-index of 1]

2025

1. OpenRLHF: An Easy-to-use, Scalable and High-performance RLHF Framework
Jian Hu, Xibin Wu, Wei Shen, Jason Klein Liu, Zilin Zhu, Weixun Wang, Songlin Jiang,
Haoran Wang, Hao Chen, Bin Chen, Weikai Fang, Xianyu, Yu Cao, Haotian Xu, and Yiming Liu
arXiv preprint cs.Al arXiv:2405.11143 2025

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
O Programming Parallel Computers, Aalto University	Spring 2023
O Platform Security, Aalto University	Spring 2023
O 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
Network Security, Aalto University	Fall 2022
O Formal Languages and Finite Automata, University of Leeds	Spring 2020