

PERSONAL RESUME

Songlin Jiang

Aalto University & DTU

SECCLO

(Security & Cloud Computing)

Erasmus Mundus Joint Master

Contact

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Phone: (Privacy, email me first)

Stack (non-exhaustive)

Python:	master
JavaScript:	master
GitHub Actions:	master
GitLab CI/CD:	master
Kubernetes:	master
Java:	proficient
C:	proficient
C++:	proficient
HTML:	proficient
SQL:	proficient
Go:	familiar
Rust:	familiar

Goal

I enjoy working with things that can benefit the company / society greatly, no matter the issue's complexity.

As a current master's student, I am interested in front-end, back-end, full-stack, software engineering, DevOps, testing, either on-site or remote, part-time or full-time. I am also very interested in possible PhD or research positions, please feel free to contact me!

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Educational Background

- 2022.08—2024.07 Erasmus Mundus Joint Master SECCLO M. Sc.**
- Full-Ride scholarship, include tuition and living costs
 - Double degree, Aalto University (GPA: 4.93/5) & Technical University of Denmark
 - 2022 Linux Foundation Training (LiFT) Scholarship (China) **Cloud Captains**
 - Research Paper "Virtual Network Systems among Containers" demoed at Aalto University Secure Systems Demo Day 2023
 - Major: **Security & Cloud Computing**, Minor: **Reliable Distributed Systems**
- 2018.09—2022.07 Lanzhou University Computer Science (Hons.) B. Eng.**
- 2019 & 2020 Lanzhou University **Outstanding Student Scholarship**
 - 2020 Linux Foundation Training (LiFT) Scholarship (China) **Academic Aces**
 - 2020 Spring exchange at the **University of Leeds** sponsored by China Scholarship Council **Outstanding Undergraduate International Exchange Program**
 - 2021 Ministry of Education & Huawei "Intelligent Base" Future Star Scholarship of the Industry-Education Integration and Collaborative Education Project
 - Grade Average: 91/100, WES GPA: 3.83/4
 - Bachelor's Thesis: **A Short-Term Wind Speed Multistep-Ahead Hybrid Prediction Model based on ICEEMDAN and Prophet-GRU-NN**

Internship Experience

- 2023.06—2023.09 Wolvic Igalia Coding Experience (remote)**
- Android deprecated methods refactoring, UI and openXR related feature implementation
 - Wolvic is a VR browser, ex. **Mozilla Firefox Reality**
 - Stipend: €7000, 48 commits, 2828 lines of code net contribution
- 2023.05—2023.08 CSC - IT Center for Science HPC Service Develop Intern (onsite)**
- Transfer GPU usage monitoring back-end to another time series database (TimescaleDB)
 - Rewrite metrics collection service for ingesting data from GPU nodes (both AMD and Nvidia)
 - Develop the Documentation GPT chatbot service using llamaIndex, Langchain and Redis
 - Make improvements to the HPC web operating interface project Open OnDemand
 - LUMI ranked 3rd around the world and 1st in Europe at HPC supercomputer TOP500 list by 2023
- 2023.03—2023.05 Kubernetes CNCF LFX Mentorship (remote)**
- Add packaging support for various **package managers** in Linux, macOS, and Windows
 - Improve release CI by adding **ARM64 binaries building and testing** support, and also support Kubernetes **auto version bumping** for other Kubernetes-related repositories
 - Enable Kubernetes GitHub Actions to support **code review** based on generated **SARIF report**
 - Stipend: \$6000, created 7 repositories and packages, 34 pull requests, helped 20 issues
- 2022.07—2022.09 Kona JDK Tencent Rhino-Bird Open-Source Training Program 2022 (remote)**
- Generate Keypairs for SM2 by various algorithms in Java, compare **performance and security**
 - Honors (2/4000+ for all): **Tencent Open Source Contributor**, **Intern of Excellence & Scholarship**
 - Stipend: ¥10000, 1108 lines of code net contribution (Paper reading and investigation)
- 2022.05—2022.09 MIT App Inventor Google Summer of Code 2022 (remote)**
- Create plugin to allow selecting, dragging and manipulating **multiple blocks** for Google Blockly
 - Plugin demoed at **2023 Google Blockly Summit** (MIT App Inventor is a project run by MIT CSAIL)
 - Stipend: \$5400, 2037 lines of code net contribution (Resolved the issue existed for a **decade**)
- 2022.05—2022.08 Cryptoanarchy Debian Summer of Bitcoin 2022 (remote)**
- Add **Continuous Integration (CI)** support for the Cryptoanarchy Debian repository (Bitcoin)
 - Chances to get into this internship in 2022: **83/20317**
 - Stipend: \$3000, 225 lines of code net contribution (mainly **investigate & tests debugging**)
- 2022.05—2022.08 Microsoft Research NYC RL Open Source Fest 2022 (remote)**
- Add **native CSV parser** support for the Vowpal Wabbit project in C++, **100% Test & Code Coverage**
 - Stipend: \$10000, 1562 lines of code or documentation / test cases net contribution + design
- 2022.01—2022.07 Institute of Software, CAS openEuler Open Source Intern (remote)**
- Stipend: ¥18000, help solve 6 issues, technologies include D-Bus, Glib, building Cloud Native Container images, Rust programming, Chrome DevTools Protocol, test case, RPM packaging
 - First to obtain 150 intern credits. Honors: **Intern of Excellence & Star of Open Source**
- 2020.07—2020.09 Emacs Open Source Promotion Plan - Summer 2020 (remote)**
- Open Source Internship at Emacs (China) under the fund of ISCAS, complete **15 compulsories + 3 voluntarily** different level tasks using Emacs Lisp, Python, JavaScript, SQLite to add new features for Emacs Application Framework (EAF). Highlight: **Browser Input Form Auto-fill**
 - Stipend: ¥12000, 2436 lines of code net contribution
- 2020.07—2020.08 Arthas Alibaba Summer of Code 2020 (remote)**
- Mainly write Chinese and English online tutorials for Arthas using Katakoda and Vue.js.
 - Highlight: Support directly **searching Class Loader by name** instead of Hash Code using Java
 - Stipend: ¥11920, 23648 lines of code or documentation net contribution

Certification & Qualities

- **Software Design Engineer**, China Qualification of Computer and Software Technology.
- **CKA: Certified Kubernetes Administrator**, issued by **Cloud Native Computing Foundation (CNCF)**, free training and certification thanks to the Linux Foundation Training (LiFT) Scholarship (China) 2020 in Academic Aces category.
- **Huawei Cloud Certified Developer Associate in Internet of Things (HCCDA - IoT)**, Training and certification of IoT devices, management, cloud technology and solutions, and the ability to conduct IoT business development practice.

Rich Programing experience: I have many personal projects on GitHub. Contributed to many open-source projects, such as **TensorFlow**, **docker** etc. for companies like **Microsoft**, **Google**.

Easy to work with: I'm an experienced open-source contributor with **1.5k followers** and **hundreds of Pull Requests** on GitHub, collaborating with upstream maintainers frequently.

Consistent: I became an **openSUSE member**, due to my **excellent development** and **continuous maintenance** work even after the Google Summer of Code 2021 funding period ended.