**A picture containing person, child, young, posing

Description automatically generatedChen, Sihan 陈思瀚**

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Website: <https://spycsh.github.io/>

## Education

|  |  |  |  |
| --- | --- | --- | --- |
| **Time** | **Major** | **School Name** | **Degree** |
| 08/2020 –  08/2022 | Software Engineering of Distributed System | KTH Royal Institute of Technology | Master of Science |
| 03/2019 - 07/2020 | Information Technology | Technische Hochschule Lübeck, Sino-German Program | Bachelor of Science |
| 09/2016 - 02/2019 | Electrical Engineering and Automation | East China University of Science and Technology, Sino-German program | Bachelor of Engineering |
| 09/2013 - 06/2016 |  | High school affiliated to Fudan University |  |

## Internships

02/2022 – 06/2022

* Master thesis in [RISE (Research Institute of Sweden) cda group](https://cda-group.github.io/) co-supervised by Paris Carbone and Vasiliki Kalavri
  + construct a temporal graph library based on Flink Stateful Functions
  + implement streaming graph algorithms based on message passing
  + implement efficient storage and query of temporal graph

05/2021 - 08/2021

* Internship: Software Developer Intern in [Ericsson](https://www.ericsson.com/en) (Stockholm)
  + Radio Control System middleware
  + Property-based testing

03/2020 - 06/2020

* Internship: Bachelor Thesis in [VITEC GmbH](https://www.vitec.com/ez-tv-platform-iptv-digital-signage) (Kiel)
  + developing a Video-based Fire and Smoke detection solution with Keras
  + designing CNN models scalable and adaptable to user datasets
  + using segmentation and writing merging algorithms for object localization

## Skills

**programming**

* firm in Java, Python, Scala, Erlang, HTML/JS/CSS
* firm in full-stack development, web frameworks, Databases (MySQL, MongoDB, PostgreSQL, Neo4j)
* firm with distributed algorithms, and distributed computing tools (Spark, Kafka, Flink, Hadoop)
* acquainted with Deep Learning (Keras, TensorFlow, Dlib, OpenCV, GNN) and traditional Machine Learning algorithms

**pragmatic tools**

* Heavy use of Git, [Github](https://github.com/Spycsh), many opensource issues fixes and pull requests of big opensource projects on GitHub
* [Docker](https://hub.docker.com/u/spycsh), Minikube

**language**

* Chinese (native language)
* English (proficient)
* German (daily communication)

## Project experience (https://github.com/Spycsh/)

* hesse - a temporal graph library based on Apache Flink Stateful Functions, master thesis project
* RunSpec - an android running app with a backend based on kafka+spark+mongodb
* Face GUI - a GUI implementation of face recognition, emotion tracking, and face searching
* Movie Recommender system - a recommender system based on Scala, Spark, MongoDB, Redis
* a GitHub Action, used to automatically check the validity of the links in the modified content of a new pull request

## Social & Life

* Sports — 4 gold medals in 400m & 800m running races in high school
* Music — amateur violinist certificate of level 10th from Shanghai Conservatory of Music
* Writing — build a [personal blog](https://spycsh.github.io/blog/)