

Haonan Su

 Hirate99 |  +1 415-367-5885 |  haonan.su@outlook.com |  haonansu |  mskyrina.top

Education



University of Southern California
MASTER OF COMPUTER SCIENCE

United States
2024 - 2026

- Course: Analysis of Algorithms | Web Technologies



Peking University
BACHELORS OF SCIENCE IN COMPUTER SCIENCE

China
2018 - 2022

- Course: Operating System | Computer Networks | Software Engineering | Database Systems

Professional Experience



Sohu
SOFTWARE ENGINEER

Beijing, China
2022.7 - 2024.7

- Collaborating with a team to explore the applications of AIGC in online media and offline activities.
 - Developed an application that analyzes users' facial features and recommends makeup and outfits, with an automatic virtual try-on feature with Next.js and ComfyUI
 - Contributed to an AI streamer project by building a system that supports real-time video rendering and short video generation using Node.js, headless Chrome and FFmpeg
- Participated in the development for [Sohu Auto](#)
 - Contributed to the front-end and back-end development of Sohu Auto's WeChat Mini-program with JS and Go
 - Designed and developed multiple web applications from scratch with Next.js and MongoDB

Go React Node.js ComfyUI Python MySQL MongoDB



Tencent
SOFTWARE ENGINEER INTERN

Beijing, China
2021.9 - 2022.5

- Contributed to [Miaojian](#), a video editing application for WeChat built with Objective-C and Swift. Implemented features such as timeline editing, video splitting, and filtering, leveraging a video rendering SDK
- Developed a cross-platform SDK demo for video composition and rendering on Android and iOS using Rust, with the core logic for composing and rendering implemented in a pure Rust module, and FFI used to expose C bindings

iOS Objective-C Swift Rust

Projects

GFI-Bot

Open Source Software Data Analytics Lab, Software Engineering Institute, Peking University

RESEARCH INTERN

2021.11 - 2022.5

- Implemented a GitHub Bot to automatically tag good-first-issues for registered projects on GitHub in Flask, based on a machine learning algorithm from the lab's [previous work](#)
- Developed a website for data visualization for our dataset and the capability of the bot in React

Representative Course Projects

Peking University

2018 - 2022

- [Software Engineering](#): Contributed to a WeChat Miniprogram for volunteering activities organized by the School of EECS, PKU
- [Operating System](#): Implemented the Nachos Operating System, including threads, mutex and semaphores, pipes, virtual memory and a Linux-like file system with C/C++
- [ICS \(CMU 15-213\) Course Labs](#): Completed and benchmarked multiple labs presented by the course, including a LRU cache simulator, a pipelined Y86-64 processor, a simple Unix shell and a memory allocator

Publications

He, H., Su, H., Xiao, W., He, R., & Zhou, M. (2022). GFI-bot: automated good first issue recommendation on GitHub. *Proceedings of the 30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, 1751–1755. <https://doi.org/10.1145/3540250.3558922>

Skills

Tech Stack JavaScript/TypeScript | Python | Objective-C | Swift | Rust | Go | C++ | React | Next.js | Linux | Git | SQL