

Haonan Su

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Education



University of Southern California
MASTER OF COMPUTER SCIENCE

United States
2024 - 2026

- Course: Analysis of Algorithms | Web Technologies | Multimedia Systems Design | Advanced Mobile Devices and Game Consoles



Peking University
BACHELORS OF SCIENCE IN COMPUTER SCIENCE

China
2018 - 2022

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

Professional Experience



Amazon Web Services (AWS)
SOFTWARE DEV ENGINEER INTERN

2025.5 - 2025.8

Designed and built AWS Wikif.ai, aimed at automating the generation and updating of internal wiki pages

- Built a desktop application with Electron, React, and TypeScript, leveraging LangGraph to orchestrate hybrid LLM workflows and agents, and integrated AWS Bedrock for intelligent document generation
- Integrated 30+ internal data sources with support for incremental background updates, reducing document creation and maintenance time from hours to minutes, with multiple teams already participating in testing

LLM React Electron LangGraph



Sohu
SOFTWARE ENGINEER

2022.7 - 2024.7

- Developed AIGC features, including a virtual try-on app using Next.js and ComfyUI, and an AI streamer's real-time video generation system with Node.js and FFmpeg.
- Drove full-stack development for Sohu Auto, building features for its WeChat Mini-program (Go) and architecting new web applications from the ground up (Next.js, MongoDB).

Go React Node.js ComfyUI Python MySQL MongoDB



Tencent
SOFTWARE ENGINEER INTERN

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 by leveraging a video rendering SDK.
- Developed a cross-platform (Android & iOS) SDK demo for video composition using Rust. The core rendering logic was implemented in a pure Rust module, with FFI used to expose C bindings for the native mobile clients.

iOS Objective-C Swift Rust

Projects

GFI-Bot
RESEARCH INTERN

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

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

Skills

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