# Jianshu Wang

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#### **OBJECTIVE**

Seeking **Software Engineer**, **Infrastructure Engineer**, **Site Reliability Engineer** or **Cybersecurity** new grad jobs starting on May 2025. **F-1** visa holder. Require future sponsorship.

#### **EDUCATION**

# Washington University in St. Louis, Missouri, U.S.

Aug 2023 – May 2025

M.S. in Cybersecurity Engineering. Cumulative GPA: 4.0

# Qingdao University of Science and Technology, Qingdao, China

Sept 2018 – Jun 2023

B.Eng. in Computer Science. Cumulative GPA: 3.35

## **EXPERIENCE**

# Senior Software Engineer / Project Lead, WashU DevSTAC. St. Louis, MO

Oct 2023 – Present

- Integration of cutting-edge technology to enhance the student and broader campus experience.
- Carried out testing against WashU ChatGPT using Python scripts and provided feedbacks.
- Worked with clients to develop **React** websites and mobile apps with Cloudflare Pages.
- Leaded a team and developed a **React Native** mobile app for WashU internal customer.
- Developed a Chrome browser extension for ServiceNow label printing on a DYMO printer.

#### Co-Founder, Hanamizuki.ai. China

Sept 2022 – Aug 2023

- Created the Launcher of Stable Diffusion WebUI in C# WPF for more than 2 million non-professional users.
- Assembled a localization team for related projects and published it on GitHub in an automated fashion.
- Created a Danbooru-like Prompt Builder in Vue.js and Element Plus for Stable Diffusion users.
- Troubleshooted and fixed issues in the community and provided technical support for users.

#### **Associate Network Administrator**

Apr 2021 – May 2023

QUST Network and Information Office. Qingdao, China

- Provide technical support for teachers across the campus.
- Help the NIO office to organize network security related events.

# **Chief Technology Officer**

Jul 2018 – Aug 2022

Winter Coalition EVE-Online Community. *China* 

- Developed and maintained tools that serves **200k users**, including HRMS, Wordpress, Mumble voice, chatbot, MySQL, etc. Implemented **OpenID Connect** SSO across sites.
- Identified and fixed the bottleneck of a Laravel Horizon Queue in the HRMS site and scaled by 100 times its designed capacity without significant cost increase.
- Increase collaboration between teams by regularly writing wiki documentations and involving in Jira tickets.
- Provided technical support for 75k+ active players, including Chinese and English speakers.

#### **PROJECTS**

# A Teletherapy & Journaling Platform

May 2024 - Aug 2024

- Lead a team of 5 engineers to develop cloud native infrastructure.
- Designed and implemented a OpenID Connect Identity Provider on Cloudflare Workers for user authentication.
- Designed and implemented a GraphQL-based API for user data storage.
- Implemented a full-fledged **React.js** based PWA as a supplement to the mobile app.
- Engineered a system that improves the performance of GPT-3.5 for therapy purpose.

#### Launcher of Stable Diffusion WebUI

through Hanamizuki.ai

A C# WPF & Python based launcher for the Stable Diffusion project designed to connect the non-professionals to latest AI technologies.

- Reduce the difficulty for new users in using the Stable Diffusion project and renovated user experience.
- Collected common errors and developed a diagnosis system with 105 issues included for self-service.
- Developed a Windows AppContainer based isolation sandbox for safely running untrusted code.
- Wrote a robust system that models a Python environment and analyzes for potential dependency conflicts.
- The project has 120k DAU and is generating a advertising revenue of 4.5k USD per month.

# **Danbooru-like Prompt Builder for Stable Diffusion**

Oct 2022 - Dec 2022

Dec 2022 – Jul 2023

through Hanamizuki.ai

A Vue.is based DIY tool for Stable Diffusion and NovelAI users. Support generating and analyzing complex prompts.

- Collected tags from various sources and used YAML for easy maintenance.
- Implemented a parser for converting complicated prompts into a structured format.
- Provided a user-friendly interface to edit the prompts and generate the final result.

## Operating System for STM32F103 processor in Rust

January 2022 – June 2023

An operating system designed for course design of my Operating System class in Rust.

- Implemented a basic bootloader for the chip.
- Designed a round-robin scheduler and a simple syscall dispatcher for bare-metal STM32F103 chip.

#### **SKILLS**

- Programming Languages: Node.js (+ Typescript), Python, PHP, HTML5, C#, Golang, C/C++, Rust (+ embedded), x86 ASM.
- Frameworks: Familiar with React.js, Vue.js, Express.js, .NET Core, Laravel, etc.
- Platform: Debian (Linux), Docker, Docker-Compose, Proxmox VE and Serverless platform (Cloudflare Workers).
- Databases & Caches: MySQL, PostgreSQL, MongoDB, Redis, Memcached, LevelDB, and RethinkDB. ORM includes Eloquent and Prisma.
- Experienced in Reverse Engineering and Binary Exploitation with IDA and Ghidra.
- Experienced in Jira and Confluence (incl. Cloud and Data Center) administration. Can handle basic level of product management.

#### **AWARDS and ACCOLADES**

2<sup>nd</sup> Prize, 2022 IEEE Software Testing Contest (College Students Category)
1<sup>st</sup> Prize, National College Student Software Testing Competition (Individual) in China

April 2022

November 2021