Duan Kaiyao

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EDUCATION

Shijiazhuang Tiedao University   Hebei, CN
Bachelor's of Computer Science and Technology   *Sep 2020 — June 2024*
- Cumulative GPA: 3.08/4.0
- Relevant Coursework: C Programming Language, Object-Oriented Programming, Unix/Linux Fundamentals, Java EE Architecture Program Design, Principle and Application of Embedded System, Database Theory, Compile Principle, Assembly Language and Interface, Operating System, Discrete Mathematics, Algorithm and Data, Principles of Computer Organization, Software Engineering, Python Language and Data Analysis, Computer Network, Computer Architecture

AWARDS

Tencent Open Source Contributor Certificate	October 2024
Tencent Outstanding Student Certificate	October 2024
15th China Undergraduate Computer Design Competition, Provincial Third Prize	June 2023
14th Lanqiao Cup National Software Competition, Provincial Third Prize	April 2023

WORK EXPERIENCE

QEMU RISC-V Development Intern   March 2024 — May 2024
PLCT Lab   *Remote*
- Enabled QEMU's riscv64-linux-user mode to parse ELF32 format executables.
- Add support for QEMU's riscv64 user mode GCC regression testing.

RELATED PROJECTS

Maintainer, Video Surveillance System for Study Rooms   March 2024 — May 2024
- A secure video surveillance system with image recognition and real-time streaming.
- Implemented MJPEG transmission, and SSL encryption.
- Built a cross-platform UI (Material Design for mobile, Electron for desktop).
- Deployed and tested on various network conditions to optimize performance.

Maintainer, Embedded System Monitoring Software   June 2023 — July 2023
- An embedded system monitoring software with a Qt4 frontend and a C++ backend.
- Implemented process, memory, CPU, and disk monitoring.
- Tested on the FriendlyARM Tiny4412 development board.

Contributor, Computer Parts Inventory Management System   December 2022 — January 2023
- A computer parts inventory management system with a Vue frontend and a Java backend.
- Implemented data storage using MariaDB.
- Configured Nginx for load balancing and SSL encryption.

Maintainer, Weibo Data Visualization Analysis   November 2022 — December 2022
- A project focused on visualizing and analyzing Weibo data.
- Visualized data with Matplotlib and Pyecharts.
- Generated word clouds using the WordCount library.

Contributor, NeverMiss Scheduling Reminder Software   November 2022 — December 2022
- A lightweight and easy-to-use scheduling reminder software written in C#.
- Implemented timed and triggered tasks.
- Integrated user notifications.

OPEN SOURCE CONTRIBUTIONS

Rhino-Bird Elite Talent Training Program   August 2024 — October 2024
- Supported the detection of NCNN_ISA environment variables.
- Developed and executed test cases to validate environment variable detection functionality.

SKILLS

- **Skillful**: Python (Pandas/OpenCV), Java, Go, C#, SQL, Shell, Git, C/C++ STL
- **Competent**: Kotlin, LaTeX, JavaScript, HTML/CSS, Assembly (x86/riscv), Rust