

Sungjoon Moon (문성준)

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SUMMARY

Software engineer, Free and Open Source Software contributor, focusing on the RISC-V ecosystem and SIMD assembly. Strong at digging into hard-to-find information. Confident in C, with experience in Python and Rust.

EXPERIENCE

VideoLAN Jun 2025 – Present

Contributor to **dav1d**, a fast and correct open-source AV1 decoder shipped in Firefox, Chromium, and VLC.

- Implemented hand-optimized RISC-V Vector extension (RVV) assembly.
- Optimized the reference C implementation algebraically for a ~7% average speedup.
- Started as Google Summer of Code 2025 contributor and continue dav1d RVV optimization.

Rainlab (Remote) Mar 2024 – Present

Contract software engineer for a Tokyo-based engineering company.

- Developed full-stack TypeScript web applications.
- Deployed services with Docker Compose and Kubernetes.

EDUCATION

Kwangwoon University — *Bachelor of Science in Computer Science and Engineering* Mar 2020 – Feb 2026

42Seoul — *Peer-to-peer software engineering program (Alumni)* Jul 2020 – Aug 2025

PROJECTS & CONTRIBUTIONS

dav1d | Hand-written RVV assembly optimizations for AV1 decoder (up to ~24x speedup over C).

RISC-V ecosystem | Contributed to mold, ripgrep, bat, and Tenstorrent AI accelerator tooling.

crossdev-stages | Automated cross-compile environment and bootable image pipeline for RISC-V and ARM boards.

Packaging | Gentoo RISC-V package fixes (10+ merged PRs) and maintainer of 28+ Arch Linux AUR packages.

Wayland | Maintainer of sway-contrib (community scripts for sway) and contributor to sway, wlroots, and cage.

Localization | Contributed Korean language support to Apache Guacamole, pretalx, dangerzone, and more.

CONFERENCES

Organizing

- Video Dev Days 2024 — Local organizer (venue, hotel, catering)
- FOSS for All Conference 2025 — Organizer (sponsorship, program, venue, infrastructure)

Speaking

- FOSDEM 2025: “Status of CJK input systems in Wayland”
- FOSSASIA 2025: “FOSS for All initiative”
- MiniDebConf Busan 2025: “Bootstrapping Debian for RISC-V”

MEMBERSHIPS

FOSS for All — *Co-Founder, Director* Mar 2025 – Present

Non-profit organization supporting the Free and Open Source Software (FOSS) community, connecting contributors, organizing the FOSS for All Conference, and aiming to offer fiscal sponsorship and funding.

VideoLAN — *Association Member* Nov 2025 – Present

Non-profit organization developing open-source multimedia software, including VLC, dav1d, and x264.