Dean Sanghyuk Seo

A self-motivated team player with a strong intuitive sense who can quickly grasp complex systems and manage tasks independently, while proactively identifying and resolving challenges.

SUMMARY OF SKILLS
- Expert knowledge of advanced C++ templates including SFINAE and value categories
- Deep understanding of memory reordering complexities in atomic operations
- Advanced debugging capabilities with LLDB and GDB in Linux environments
- Proven experience in resolving ABI issues and symbol visibility challenges
- Hands-on implementation of ef_vi APIs with 7000/8000 SF network cards
- Strong CI/CD configuration skills using containerization tools (Podman/Docker)
- Advanced Git proficiency including cherry-pick and fast-forwarded merge strategies
- Skilled at leveraging documentation tools to populate comprehensive documents
- Enthusiastic contributor to DevOps initiatives with proficiency in SaltStack and Chef

WORK EXPERIENCE

Squarepoint, Singapore — *Software Engineer (Order Gateway, Market Data)*

2022.07 ~ Current

- Built high-performance trading applications for APAC exchanges (KRX, TSE, HKFE)
- Onboarded onshore Chinese derivative markets (ZCE/DCE/INE/SHFE) using CTP FIX
- Integrated with ASX leveraging OUCH for order executions and ITCH for market feeds
- Engineered uptick-rule implementations to determine SSE(Short-Sell Exempt) in TSE
- Worked on namespace isolation architecture to enhance production reliability
- Configured DMA to capture and archive feeds with SolarCapture for historical analysis

Ingensoma, Singapore — *Software Engineer (Market Connectivity)*

2018.12 ~ 2022.03

- Engineered packet capture infrastructure leveraging Metamako and FMADIO
- Developed trading platform for KOSPI200 Options interfacing in Eurex T7 and CME
- Streamlined DevOps automation processes for VM instances scaling using SaltStack
- Delivered L1 support for discretionary Options traders during SoD

Samsung Electronics, Seoul, South Korea — *C++ Engineer*

2018.08 ~ 2018.11

- Developed semiconductor control applications using Qt/C++ in Linux as a contractor

Agoda, Bangkok, Thailand — *Software Engineer (Finance, BO)*

2017.03 - 2018.06

- Containerized Windows applications, establishing Docker image distribution pipeline
- Designed and deployed .NET class libraries through TeamCity's CI/CD framework

QMC, Anyang, South Korea — *Software Engineer*

2015.04 - 2016.09

- Optimized legacy precision laser controller applications using modern C++11/14

Winforsys, Yongin, South Korea — *Software Engineer*

2011.10 - 2014.07

- Architected controller applications using MFC and COM libraries with P/Invoke

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Contact

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ONLINE PROFILES
⌂ deanseo.github.io/trada
○ linkedin.com/in/dean-seo
≋ stackoverflow/dean-seo

Languages

C++20

Python

Emacs Lisp

Bash Script

CMake

EDUCATION
Credit Bank National Institute for Lifelong Education(NILE)
Computer Engineering

2017.08

Shingu College, Seongnam, South Korea
Computer Engineering

2012.02

Tools
Git, Teamcity, Jira, Confluence, Docker, Podman, Ninja, Emacs, clang-tidy, LLDB, SaltStack, Kibana, GitLab CI/CD, Bamboo

PROJECTS
The Seoul OpenAPI, the Seoul Metropolitan Government

2015.01 - 2016.12

LANGUAGES
Korean – Native
English – Very Fluent