

# 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)

2022.07 ~ Current

- Built high-performance trading applications for Asian exchanges (KRX, TSE, HKFE)
- Onboarded onshore Chinese derivative markets (ZCE/DCE/INE/SHFE) using CTP FIX
- Implemented ASX connectivity using OUCH for trading and ITCH for reference data
- Engineered uptick rule implementations for SSE in TSE Arrowhead with desks
- Worked on namespace isolation architecture in trading systems for reliability

### 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 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

## Contact

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## ONLINE PROFILES

[deanseo.github.io/trada](https://deanseo.github.io/trada)  
[linkedin.com/in/dean-seo](https://linkedin.com/in/dean-seo)  
[stackoverflow/dean-seo](https://stackoverflow.com/users/1000000/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