

GAME PROGRAMMER · ENGINE ENGINEER · DEVELOPER · LECTURER

617, Sampyeong-dong, Bundang-gu, Seongnam-si, South Korea

Work Experience _

Embedded Software Engineer

Seongnam-si, South Korea

42DOT

Sep 2024 - Present

· Develop something using Rust (Secret)

Tech Lead Seoul, South Korea

EJN CORPORATE Dec 2023 - Jun 2024

· Manage development teams by meeting 1 on 1 regularly and discussing technical decisions and determining direction

• Develop new project (Unannounced)

Engine Engineer Seoul, South Korea

MOMENTI KOREA Aug 2021 - Nov 2023

- · Develop cross-platform engine for making and playing interactive media using Rust
- Create and deploy Swift APIs for use in iOS apps
- Create and deploy Elixir APIs for use in backend
- Transfile and deploy WebAssembly for use in web browsers

Game Programmer

Seongnam-si, South Korea

Nexon Korea Sep 2015 - Jul 2021

- Update build system by upgrading IDE version (Visual Studio 2008 → Visual Studio 2015)
- Develop physics engine for 64-bit application build (Havok Physics → NVIDIA PhysX)
- Develop many contents such as 'Depart for Battle', 'Quick Departure', 'Pet Book', 'Partholon Vanguard' and 'Friendship System'
- Develop raid 'Macha' and character 'Tessa'
- Improve facial system by facing-related elements to automatically change based on scale value
- Maintain and manage Korea live server

Projects

RosettaStone

utilForever/RosettaStone

DEVELOPERMay 2017 - Present

- Implemented Hearthstone simulator for reinforcement learning using C++17
- Wrote extensive unit test to check each card's effect

CubbyFlow

CONTRIBUTOR

CubbyFlow/CubbyFlow

DEVELOPER Apr 2018 - Present

- Voxel-based fluid simulation engine for computer games using C++17
- Wrote detailed documentation and tests/benchmarks for the library and published it on GitHub

baba-is-auto

utilForever/baba-is-auto

Sep 2021 - Nov 2022

DEVELOPER Apr 2018 - Present

- Implemented Baba Is You simulator for reinforcement learning using C++17 $\,$
- Worked Python API support for convenience use and benchmarked by using DQN

rxRust rxRust/rxRust

- Rust implementation of Reactive Extensions
- Implemented WebAssembly support
- Implemented several core features such as 'BehaviorSubject', 'WithLatestFrom' and 'StartsWith'

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Skills

Languages C++, Rust, C#, Python

Spoken Languages Korean, English, Japanese

Programs Visual Studio, Visual Studio Code, RustRover, GitKraken, Word

Education

KAIST Daejeon, South Korea

M.S. IN COMPUTER SCIENCE Mar 2013 - Aug 2015

Kyungpook National University

Daegu, South Korea B.S. IN COMPUTER SCIENCE AND ENGINEERING Mar 2008 - Feb 2013

Honors and Awards

Microsoft MVP (Most Valuable Professionals) Microsoft

CATEGORY: DEVELOPER TECHNOLOGIES 2015 - Present

ACM-ICPC 2012 Daejeon Regional Ministry of Future Creation and Science, NIA

HONORABLE MENTION

1st TOPCIT Competition Korea Ministry of Science and ICT, NIPA

SPECIAL PRIZE 2012

Translations

Optimized C++ Hanbit Media

C++ 최적화 Jul 2019

Discovering Modern C++ Gilbut

모던 C++ 입문 Dec 2017

Rust Essentials Hanbit Media

러스트 핵심 노트 Feb 2017

Programming 2D Games Acorn Publishing

2D 게임 프로그래밍 Nov 2014

Unity Shaders and Effects Cookbook Acorn Publishing

유니티 SHADER와 EFFECT 제작 Apr 2014

GameSalad Beginner's Guide Acorn Publishing

게임샐러드로 코드 한 줄 없이 게임 만들기 Jul 2013

Communities and Studies _____

C++ Korea **Voluntary Association**

Nov 2013 - Present

Facebook Community

- A Facebook community that uses C++ language and shares related information
- Translate "C++ Core Guidelines" to Korean
- Host seminars, meetups and studies periodically
- 6000+@ members

FOUNDER AND ADMINISTRATOR

Reinforcement Learning KR

ADMINISTRATOR Jan 2021 - Present

- A Facebook community that researches reinforcement learning and shares related information
- Host meetups and studies periodically
- 6000+@ members

Reinforcement Learning Paper Study

Online

Oct 2023

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ADMINISTRATOR May 2020 - Apr 2023

• Review a variety of papers, from DQN to state-of-the-art papers introduced in the latest conferences

- Present and discuss 2 papers per week
- 100+@ papers
- 100+@ members

Teaching _

Rust Basic + Linux Kernel Development Seoul, South Korea

HSPACE Jul 2024 - Present

Rust Basic + Cross-platform Application Development Seoul, South Korea

SEOUL NATIONAL UNIVERSITY - SCSC + WAFFLESTUDIO Mar 2024 - Present

Rust Basic + Rogue-like Game Development Seoul, South Korea

KONKUK UNIVERSITY - GDSC KONKUK + EDGE Mar 2024 - Present

Rust Basic + Make a Blog Seoul, South Korea

KOREA UNIVERSITY - MATKOR Mar 2024 - Present

Rust Basic + Make a Minecraft Ulsan, South Korea

UNIST - HEXA Jan 2023 - Present

Rustonomicon at a Glance Seoul, South Korea

KOREA UNIVERSITY - MATKOR Dec 2023 - Feb 2024

Rust Basic + Backend Development Seoul, South Korea

KOREA UNIVERSITY - GDSC KU Sep 2022 - Sep 2023

Rust Basic + Make an Interpreter Seoul, South Korea

KOREA UNIVERSITY - MATKOR Mar 2023 - Aug 2023

Rainbow Is All You Need Daegu, South Korea

DAEGU SOFTWARE MEISTER HIGH SCHOOL Oct 2021

Reinforcement Learning Basic Ulsan, South Korea

UNIST - HEXA Jul 2021 - Sep 2021

Artificial Intelligence Go with AlphaGo and AlphaGo Zero Daejeon, South Korea

KAIST - INCLUDE Mar 2021 - Jul 2021

Artificial Intelligence Go with AlphaGo Zero Seoul, South Korea

2020 WINTER OSS DEVELOPER FORUM CAMP Jan 2020

Seoul, South Korea

Reinforcement Learning Basic

2019 SUMMER OSS DEVELOPER FORUM CAMP Jul 2019

Presentation _

C++ Korea Meetup Seoul, South Korea

A QUICK LOOK OF C++ CONCURRENCY Jun 2024

2024 Softeer Tech Meetup Seoul, South Korea

WHY IS RUST ON THE RISE + INTRODUCTION TO RUST'S KEY FEATURES Jun 2024

4th DevTalk Seminar - Hongik University, Computer Engineering Seoul, South Korea

LEAP FROM COLLEGE STUDENT TO DEVELOPER Mar 2024

Cloud Native Sustainability Week in Seoul Seoul, South Korea

CAN RUST SAVE THE EARTH?

C++ Korea Meetup Seoul, South Korea

GAME DEVELOPMENT WITHOUT USING CLASS Jun 2023

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C++ Korea Meetup Direction of C++ Education for Beginners	Seoul, South Korea
ModuLabs MODUPOP Developers' Reinforcement Learning	Seoul, South Korea
INFCON 2022 RUST CROSS-PLATFORM PROGRAMMING	Seoul, South Korea
Korea University, Dept of CSE - Special Lecture Things I wish I'd known in College	Seoul, South Korea
44BITS Potcast Live 5 Years of Hearthstone Development	Online Mar 2022
Taling Monthly Code Reivew Ver 0.1 GROWING AN OPEN SOURCE PROJECT	Online Oct 2021
72th AiFrenz Seminar REINFORCEMENT LEARNING ENVIRONMENT DEVELOPMENT	Online May 2021
Jeonbuk Science High School - Special Lecture Create an Artificial Neural Network Using Python	Online May 2021
2020 OSS Festival Managing an Open Source Project (Community) Well	Online Nov 2020
GitHub in DevOps Meetup 2020 The Journey from Open Source to Inner Source	Online Nov 2020
7th C++ Korea Seminar Game Development without using Pointer	Online Jul 2020
6th C++ Korea Seminar C++ Open Source 101	Seoul, South Korea
GDG Campus Seoul - Toy Story Trial and Error for a Sustainable Side Project	Seongnam-si, South Korea
Nexon Developer Conference 2019 EXPERIENCE IN DEVELOPING HEARTHSTONE REINFORCEMENT LEARNING ENVIRONMENT	Seongnam-si, South Korea
5th C++ Korea Seminar C++20 Key Features Summary	Seoul, South Korea Apr 2019
Meltingcon 2018 Create Python API using C++	Seoul, South Korea May 2018
Nexon Developer Conference 2018 EXPERIENCE IN DEVELOPING FLUID SIMULATION ENGINE	Seongnam-si, South Korea Apr 2018
16th Hacking Camp C++ Secure Coding Guide	Seoul, South Korea Aug 2017
3rd C++ Korea Seminar New C++ in a New Visual Studio, a Migration Story	Seoul, South Korea Feb 2017
2nd C++ Korea Seminar C++17 Key Features Summary	Seoul, South Korea May 2016
Microsoft Techdays Korea 2015 GREASE RUSTY OLD C++ CODE WITH MODERN C++	Seoul, South Korea Oct 2015
1st C++ Korea Seminar C++11 Key Features Summary 2024-09-20 CHRIS OHK - RÉSUMÉ	Seongnam-si, South Korea Dec 2014

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