

# Yooseok Jeong

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## Summary

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Software Engineer who enjoys creating visible results. Aim to create meaningful user experiences through technology and deliver social value.

## Experience

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**HR Manager**, Hyperithm – Seoul, South Korea June 2025 – Aug 2025

- Organized cultural events, built feedback systems, and streamlined communication channels to enhance engagement.
- Formalized culture guidelines and workplace policies to improve operational efficiency.

**Lead Engineer (KEX Cell)**, Hyperithm – Seoul, South Korea Sept 2020 – May 2025

- Developed a high-frequency trading (HFT) system in **Rust** and created market data and order execution services integrating over 20 **CEX/DEX** venues (unified schemas, rate limiting, automatic retries), for real-time trading strategies.
- Built a **Python**-based trading framework that enabled strategy developers to focus solely on business logic; normalized market data schemas and a unified order execution API, implemented robust error handling and logging, and added graceful shutdown, improving reliability and reducing operational overhead.
- Developed a Slack-integrated trading system management service.
- Developed and deployed multiple trading algorithms (details confidential).
- Developed a deep learning-based trading system and strategy.
- Maintained and improved the internal accounting system.
- Tech: **Rust**, **Python**, TypeScript, TensorFlow, PyTorch

**Research Intern**, Morpheus3D – Seoul, South Korea Mar 2020 – Aug 2020

- Designed and built a light-stage 3D scanning system, covering hardware (lighting/camera rig) and reconstruction algorithms.
- Improved a multi-view diffusion-based 3D generation pipeline by correcting brightness inconsistencies in overlapping regions, yielding more accurate reconstruction.
- Focused on 3D reconstruction for medical simulation workflows; simulation components were out of scope.
- Tech: **Python**, C++, OpenCV

**Undergraduate Intern**, Seoul National University, Quantum Information and Quantum Computing Research Lab (Prof. Tae-Hyeon Kim) – Seoul, South Korea Feb 2019 – Aug 2019

- Researched quantum algorithms.
- Researched the Qiskit quantum computing library.

**Research Intern**, Morpheus3D – Seoul, South Korea June 2018 – Aug 2018

- Developed a face landmark detection model.
- Tech: **Python**, TensorFlow, PyTorch

## Projects

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**CultureInfra** Mar 2023 – July 2025

Designed and developed interactive systems for live performances and exhibitions.

- Developed an interactive art program for G-Dragon Media Exhibition: Übermensch.
- Developed an RFID interactive lighting system for festivals.
- Developed an interactive art program for IU Media Art Exhibition: Moment.
- Tech: **Python**, TypeScript, Unity

**CoDevMap** Sept 2024 – Feb 2025

- Developed a project-based coding education platform.

**KAIST Science Hub** Mar 2024 – Sept 2024

Developed a collaborative science exhibition at Lotte Department Store.

- Built a robotic arm system that draws human faces.

- Implemented motion control and an image processing pipeline.
- Tech: **Python**, C++, OpenCV, Arduino

#### **EthSeoul 2023 Hackathon - ChainFeed**

June 2023 – June 2023

- Developed a social network based on **DEX** activities using GraphQL.

#### **Seoul National University, LG Employee-sponsored AI Class TA**

Jan 2019 – Feb 2019

- Designed assignments and projects; performed TA activities

#### **Privatenote**

Jan 2017 – Apr 2017

- Developed math and computer science education content, recorded video lectures

### **Skills**

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**Programming:** Python, Rust, TypeScript, C

**AI/ML:** TensorFlow, PyTorch

**Web/Backend:** Node.js, Next.js, FastAPI

**Computer Vision:** OpenCV

**Other:** Competitive Programming

### **Education**

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**Seoul National University**, BS in Computer Science – Seoul, South Korea

Mar 2017 – Feb 2025

- GPA: 3.65/4.30

**Seoul Science High School**, Specialized in Mathematics, Computer Science – Seoul, South Korea

Mar 2014 – Feb 2017

### **Awards**

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- EthSeoul 2023 Hackathon - TheGraph 2nd Prize
- SCPC (Samsung Collegiate Programming Cup) 2021 - 5th Prize
- SNUPC (Seoul National University Programming Contest) 2018 - Division 2 - 1st Prize
- FKMO (Korean Mathematical Olympiad Final Round) 2015 - Honorable Mention
- KMO (Korean Mathematical Olympiad) 2014 - Silver Medal