

Joon Youl (Eric) Park

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EDUCATION

Yonsei University

Seoul, Korea

B.S. in Computer Science

Mar. 2020 – Expected 2027

GPA: 3.71/4.30 Converted GPA: 3.90/4.50

Relevant Coursework: Data Structures, Algorithm Analysis, Operating Systems, Computer Systems, Computer Networks, Database Systems, Cloud Computing, Compiler Design

RESEARCH EXPERIENCE

Proactive Horizontal Pod Autoscaling in Kubernetes

2026

- First-author manuscript in preparation on lightweight forecasting for proactive Kubernetes autoscaling.
- Preserved the standard HPA control equation while replacing reactive CPU signals with 5-minute-ahead forecasts from a multiple linear regression model.
- Designed a tunable τ - ϵ hysteresis policy to mitigate flapping and quantify cost-stability trade-offs.
- Trained and evaluated on Alibaba Cluster Trace 2018 using lag and rolling-window features; achieved $R^2 > 0.92$ on 3 of 4 applications and average replica savings of 42.7%–75.2%.

INDUSTRY EXPERIENCE

Riiid

Seoul, Korea

Software Engineer

Apr. 2023 – Aug. 2025

AI edtech company serving 2.5M+ learners; raised USD 250M in total funding, including USD 175M from SoftBank Vision Fund 2.

- Re-architected a latency-critical payments Geolocation API with Edge Functions, reducing response time from 1200ms to 200ms and improving uptime from below 95% to 99.9%.
- Identified rendering bottlenecks and redesigned the web delivery stack (ISR adoption, SSR reduction, and client data-fetching refactors), reducing product page load time from 5s to under 1s.
- Refactored query orchestration with TanStack Query, reducing average question load time from 2s to under 0.5s and improving exam-session stability.
- Drove end-to-end funnel performance optimization that increased monthly purchase conversion from 3.19% to 8.63%.
- Built a Delegate Router using next/compat/router to de-risk Pages-to-App Router migration, accelerating migration velocity by 300%.
- Led migration from Lottie-based to Rive-based avatars in Real Academy, reducing CPU usage by 62.5% and lowering app crashes by 90%.

OPEN SOURCE

Rive

Dec. 2024

- Contributed `useStateMachineInputs` to `rive-react`, simplifying multi-input state machine handling in React applications.
- Partnered with maintainers on architecture refinements that reduced computational complexity from $O(nm)$ to $O(\max(n, m))$.

AWARDS & HONORS

Higher Honor Scholarship, Yonsei University

Feb. 2026

1st Place, UCSD Qualcomm Institute Hackathon

Jan. 2026

1st Place, Korea University Hackathon

Aug. 2022

9th Place, ACM-ICPC Seoul Regional Preliminary Contest

Dec. 2024

10th Place, SUAPC Winter Contest (ICPC Rules)

Feb. 2023

LEADERSHIP & ACTIVITIES

President, Nexters – IT Club for Engineers and Designers

Jan. 2024 – Aug. 2025

Engineering Mentor, LIKELION

2025 – Present

Member, Morgorithm (ACM-ICPC Club)

2021 – 2025

Member, YCC (Yonsei Computer Club)

2022 – 2025

SKILLS

Programming: Python, C++, TypeScript, JavaScript, Linux, Kubernetes, Docker, AWS, Git

Spoken Languages: Korean (Native), English (Native; TOEFL iBT 116), Mandarin (Fluent; HSK 6)