Youngjun **Song**

SOFTWARE ENGINEER

☐ (+82) 10-3088-3980 | ✉ syjn99@gmail.com | 🏠 junsong.xyz | syjn99 | 🔗 youngthejun

Summary

Software engineer experienced in rapidly onboarding large-scale projects, both in corporate and open-source environments, and quickly delivering new features. Passionate about blockchain technologies and distributed systems. Skilled in producing clear documentation that streamlines development for diverse teams.

Work Experience

Superblock
Seoul, S.Korea

PROTOCOL ENGINEER
Apr. 2024 - Feb. 2025

- Maintained **"Chronos"**, the blockchain consensus client forked from Ethereum.
- Found and fixed several bugs in the implementation using Grafana, Prometheus, and custom scripts.
- Built CI/CD pipelines on Github Actions for binary deployment.
- Reduced the CI/CD pipeline runtime from 25 minutes to under 10 by leveraging Bazel Remote Cache Server and GCP Workload Identity Federation.
- Built a server that provides checkpoints for syncing the blockchain client using GCP Cloud Run.
- Deployed tools to monitor and test the blockchain network.
- Built several Slackbots for automating tasks (e.g. daily statistics from AWS CloudWatch).

Superblock
Seoul, S.Korea

FRONTEND DEVELOPER
Jan. 2023 - Mar. 2024

- Developed a blockchain node client desktop application (**"OverNode"**) from scratch using Electron and React.
- Introduced Sentry to capture runtime errors from user sessions.
- Migrated the landing page from an SPA to Next.js, improving performance and SEO.

Open Source Experience

Ethereum Core Clients

PRYSM, RETH, LIGHTHOUSE
Aug. 2024 - Present

- Fixed a bug that led to a memory leak when a future Ethereum upgrade (Pectra) was fully applied in **Prysm**.
- Added a new API for accessing recently added fields in the Ethereum Beacon State in **Lighthouse**.
- Added a panel that tracks buffered outgoing messages in the mempool, for the **Reth** Grafana dashboard.

Ream: Ethereum Beam Client

Dec. 2024 - Present

- Added modularity for choosing the backend of BLS signature primitive.
- Built a Proof-of-Concept project for integrating the Ethereum consensus state transition functions with zkVMs.

Education

KAIST(Korea Advanced Institute of Science and Technology)
Daejeon, S.Korea

B.S. IN SCHOOL OF COMPUTING
Mar. 2018 - Expected Aug. 2026

Extracurricular Activity

Orakle (KAIST Blockchain Society)
Seoul/Daejeon, S.Korea

CORE MEMBER & VICE PRESIDENT AT 2023
Sep. 2022 - Feb. 2024

- Delivered a presentation on Ethereum Client Diversity as a member of Team Client Diversity.
- Built the official Orakle website.