SEONGYOON CHEONG

Software Engineer

A software engineer with a foundation in mathematics. A lifelong programmer passionate about all things technology-related. Excels at distilling complex problems into their core logical components to create elegant and holistic solutions.

INFO

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STRENGTHS

Software Design | Advanced Algorithms | Code Optimization | Logical Rigor | Collaborative Development

SKILL

Programming

C# | Python | C | Java | Javascript | Bash | LaTeX

Tools

Linux | Vim | Git | AWS | GCP | Docker

Domains

Blockchain | Distributed Systems | Cryptography | Computational Geometry | Linear Programming | Data Science

LANGUAGES

English
Korean

INTERESTS

Programming Language Theory | Logic | Theory of Computation | Combinatorics | Automation

EXPERIENCE

Blockchain Engineer

Planetarium Labs

Mar 2021 – Dec 2024 | Seoul, South Korea

- Optimized bottlenecks in search and serialization algorithms, often with over $10\times$ improvements in benchmarks on hot paths, resulting in a 30% reduction in overall system memory footprint.
- Finalized the implementation of algorithmically complex core components such as the Merkle Patricia Trie and Bencodex, filling in missing features and resolving logic flaws to allow data migration on a live network.
- Served as the core repository's top contributor, reducing the total codebase size through refactoring while simultaneously delivering major feature sets and performance improvements.
- Hardened the P2P networking layer for a distributed system, resolving complex race conditions by designing a state machine to ensure a more robust system.

Algorithm Engineer

Spacewalk

Jun 2019 – Dec 2020 | Seoul, South Korea

- Developed core computational components with extensive use of computational geometry and linear programming.
- Established on-premise infrastructure from the ground up. Standardized development environments and implemented secure remote access protocols.

Machine Learning Researcher

Clunix

Feb 2018 – Apr 2018 | Seoul, South Korea

- Conducted exploratory NLP research on Korean morphological analysis, assessing the feasibility of experimental architectures such as Hierarchical Temporal Memory and non-backpropagation networks.
- Engineered data ingestion pipelines to scale the training corpus and modernized the team's workflow by integrating Git/GitLab for version control.

EDUCATION

M.S. Mathematics

POSTECH

Aug 2015 | Pohang, South Korea

B.S. Mathematics

SUNY Stony Brook

Dec 2009 | New York, USA