Sangyub Lee

Math Engine Developer

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Summary

An experienced software developer in computer algebra, symbolic computation and mathematical education. I have a wide variety of knowledge in the domain like syntactic unification, polynomial factorization, Groebner basis, symbolic integration, and geometric theorem proving. In my previous career, I have not only utilized such knowledge to solve tough math problems, but also to leverage K-12 problem solving skills in terms of automated theorem proving and metamathematics. I'm willing to contribute my previous studies and experiences to your stack of mathematical problem solvers, and study more deeply in the topics like algebraic number theory, hypergeometric functions, quantifier elimination, numeric analysis, and logical programming during the career.

Experience

2020
Present

Math Engine Developer, *Mathpresso Inc*

I've majorly contributed to the following projects
- Exponential Algebra
- Algebraic, Irrational Equations
- Symbolic Differentiation
- Rational Function Integration
- Area Method for Automated Geometry Proving

2018
Present

Maintainer, *SymPy Development Team*
- GSoD Mentor (2020)

Education

2016.03
2021.02

BSc. Electronic Engineering, *Sogang University*, Seoul

Skills

Industry Knowledge — Computer Algebra Systems, Symbolic Mathematics

Tools & Technologies — Python, Mathematica, SymPy, LaTeX