

Hitoshi Togasaki

- Live: Tokyo, Japan
- Birth: 1990/11/11
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- GitHub: <https://github.com/togatoga>

EDUCATION

- 2010.4 – 2014.3: B.E Waseda University
 - Mathematics
- 2014.4 – 2016.9: M.S. University of Tokyo
 - Information Science and Technology
 - Research
 - Acceleration and parallelization of SAT Solver

Skills

Language

- Japanese
 - Native level
- English
 - Conversational Level
 - TOEIC score: 835

Programming Languages

- C++
 - Usage:
 - Research(SAT Solver)
 - Competitive Programming
 - Implement Algorithm
- Python

- Usage:
 - Aggregation data
 - Visualize data(plot graph)
 - Cli tools
 - Scripts for small works
- Golang
 - Usage:
 - Web Development
 - Cli tools
- PHP
 - Usage:
 - Web Development

Knowledge about SAT Solver

My research was the acceleration and parallelization of SAT Solver. I have good knowledge about SAT Solver algorithm and implementation.

I parallelized minisat(<https://github.com/niklasso/minisat>) by Message Passing Interface and also re-implemented minisat for the competitive programming.

I listed my SAT Solver codes in Projects, you can see it.

Competitive Programming

I love studying algorithm and competitive programming,so I regularly participate in contests, TopCoder, AtCoder, Codeforces.

My handle names are **togatogah**, **togatoga**. I'm a yellow coder at TopCoder,have intermediate knowledge about algorithms(math,graph,sort,string,dynamic programming).

I also have interests about the Game AI, I achieved good results in some Game AI contests(CodeVS5.0,Hypersonic).

Competitive Programming Rating

- TopCoder:

- Max Rating: 1508
 - Yellow coder
 - <https://www.topcoder.com/members/togatogah>
- AtCoder:
 - Max Rating: 1707
 - Blue coder
 - <https://atcoder.jp/user/togatoga>
- Codeforces:
 - Max Rating: 1761
 - Blue coder
 - <http://codeforces.com/profile/togatoga>

Work History

Rakuten Company (Application Engineer, Tokyo/Japan)

Oct. 2016 ~

Development and maintain many small web services.

Indeed (Summer Internship, Austin/Texas)

Sep. 2015 – Sep. 2015

Inspect Texas university and some companies(IBM,Indeed)

Projects

- para_minisat:
 - Parallelize minisat by Message Passing Interface
 - Can work between machines.
 - https://bitbucket.org/togatoga/para_minisat/overview
- togasat:
 - Re-implement minisat for the competitive programming
 - Easy to compile and use.

- <https://github.com/togatoga/togasat>
- competitive-lib
 - Algorithm Library
 - <https://github.com/togatoga/competitive-lib>
- goforces:
 - API client library for Codeforces
 - <https://github.com/togatoga/goforces>
- 2048AI
 - Implement Monte-Carlo Tree Search for 2048
 - <https://github.com/togatoga/2048AI>
- dotfiles:
 - My setting files for ubuntu and macOS
 - <https://github.com/togatoga/dotfiles>

Awards

1. CODE VS 5.0 2016: **Advance to the final round(Elimination round 2th(2/238))**
 - Only top 8th Player are invited to the final round
 - Beam search algorithm and heuristic
 - <https://github.com/togatoga/codevs5.0>
2. CodinGame Hypersonic 2016: **Rank 47/2715**
 - Beam search algorithm and heuristic and some tricks for the acceleration
 - <https://github.com/togatoga/Hypersonic>