

CHIH-CHENG REX YUAN

hello@rexyuan.com

EDUCATION

- National Taiwan Normal University** 2014 - 2019
B.S. in Computer Science and Information Engineering
- Selected courses: Computational Logic (covers LTL, CTL, Hoare), Algorithms, Discrete Mathematics, Automata Theory, Theory of Computing, Mathematical logic, Logical Programming in Prolog, Functional Programming in Common Lisp; Programming Language in SML. Average GPA of above is **4.09** out of 4.3.
- FLOLAC Summer School at National Taiwan University** 2017, 2018, 2019
CONFESTA Summer School at University of Chinese Academy of Sciences 2018

EXPERIENCE

- Formal Land** Paris/Remote
Formal Verification Engineer 2022 -
- Specification and verification of the OCaml codebase of Tezos economic protocol Jakarta with Coq.
- Institute of Information Science, Academia Sinica** Taipei/Remote
Research Assistant 2019 - 2022
- Developed bit-level hardware verification safety algorithm based on algorithmic boolean learning and its implementation which solves about 300 of 747 instances in HWMCC10 benchmark. Optimized implementation with improved algorithm which combines learning and interpolation method solves about 400 instances.
 - AIG input parser, solver interface, program data structures, profiling and logging, memory arena, and backend algorithm engines are independently implemented in C++ with minisat.
- Institute of Information Science, Academia Sinica** Taipei/Remote
Adjunct Research Assistant 2017 - 2019
- SAT reduction of poset cover problem for message sequence chart synthesis implemented in Python with z3.
 - NP-hardness of k-anonymity checking problem and a randomized approach thereof for the 2010 Taiwanese census data implemented in Python with MySQL.
- INSIDE** Taipei
Software Engineering Intern 2016
- Backend Wordpress theme development; collaboration and communication with frontend team.
 - In-house editor user-interface feature requests for editorial team.
- INSIDE** Taipei
Editorial Intern 2015
- Coverage, interviewing, and reporting on technology and startup related scenes.

AWARDS & CERTIFICATES

- Academic Excellence Award** 2016
Ranked top 5% in a class
- TOEFL iBT** 2016
Score: 108 (Reading: 29 / Listening: 30 / Speaking: 22 / Writing: 27)
- TOEIC** 2013
Score: 960