Chung-Hao Huang

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OBJECTIVE

To obtain a full-time position as a staff software engineer

KEY QUALIFICATIONS

PhD student in Graduate Institute of Electronics Engineering from National Taiwan University, research interests including SW test automation, game theory, and temporal logic

TECHNICAL SKILLS

1. Highly self-motivated, self-learning and independent in problem solving
2. Ability to research, design, deploy and adopt new technology
3. Experience in NP-complete, PSPACE-complete, EXPTIME-complete algorithm implementation with C, C++ or python
4. X86 architecture and UEFI bios basic concept
5. Experience in parser generator (lex, yacc, ply, ANTLR, pyparsing) experience while implementing building tool chain
6. Experience in MVC model developing (Android app, JAVA based MIS system)

WORK EXPERIENCE

Intel Corp.(2011-2012, 2014-present)
Various Internship Project

- Deploying online hardware testing farm.
- Implementing auto SW deploying tool.
- Bios source code debugging.
- Bios build tool implementing.

EDUCATION

PhD student in Graduate Institute of Electronics Engineering
National Taiwan University
2008-present

Bachelor in Electronics Engineering
National Taiwan University
2003-2007

MAJOR GRADUATE SCHOOL PROJECTS

SW Testing on Android apps

- Auto test case generating tool with GUI object identification
- Tool to extract specific behavior which causes anomalies by applying data mining in test results
- Black box memory leakage and code coverage detection with deassamble technique

Temporal logic and game theory

- A Game-Theoretic Foundation for the Maximum Software Resilience against Dense Errors. IEEE Transactions on Software Engineering
- An Extension of ATL with Strategy Interaction. ACM Trans. Program. Lang. Syst.
- Model-Checking Iterated Games. TACAS
- A Temporal Logic for the Interaction of Strategies. CONCUR
- Rapid Recovery for Systems with Scarce Faults. GandALF
- Evolving a Test Oracle in Black-Box Testing. FASE
- Temporal Specification Mining for Anomaly Analysis. APLAS

Logic Synthesis

- G4LTL-ST: Automatic Generation of PLC Programs. CAV