

Tianyi Cui

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(It's a prime number!)

Work Experience

Hulu

Research Developer Intern

Beijing, China

November 2011 - February 2012

- ▶ Designed and built a prototype of P2P video-on-demand Flash client.
- ▶ Helped to build an automatic testing framework for Flash applications in C#.

Microsoft Research Asia

Developer Intern

Beijing, China

February 2011 - May 2011

- ▶ Designed and implemented some core algorithms for Bing Dictionary, which are being used in the desktop client and server side.
- ▶ Improved a graphics demo program by adding body gesture UI using Kinect.

Open Source Project

GoLio <http://tianyicui.com/golio/>

September 2012 - present

- ▶ GoLio is a Lisp dialect implemented in OCaml, with a Go-like concurrency model.
- ▶ Implemented a subset of R5RS Scheme, with notable additions in concurrent programming, like light-weight threads, channels, and deadlock detection.

Skills

- ◇ Algorithm design, implementation and analysis
 - ▶ Proficient in algorithmic problem-solving.
 - ▶ Skilled with implementing algorithms based on textbooks and research papers.
- ◇ Programming skills
 - ▶ Write clean code in C, C++, Ruby, Python, C# and OCaml with practical experience.
 - ▶ Highly interested in concurrency-oriented programming languages like Go, Erlang, and Haskell.
 - ▶ Test-driven development with RSpec, NUnit and similar tools.
 - ▶ Lexical analysis and parsing with flex, bison, parsec, treetop and other tools.
 - ▶ Experienced with common Unix command line utilities.
- ◇ General skills
 - ▶ Excellent quick learning and problem-solving ability under time constraints.
 - ▶ Critical thinking and effective communication.

Education

Zhejiang University

B.S. in Computer Science and Technology

Hangzhou, Zhejiang, China

June 2013 (expected)

Academic Achievements

Four gold medals of ACM International Collegiate Programming Contest Asia regional.