

Li Xuanji

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github.com/zodiac
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Education

NUS High School

2006-2011

Graduated with Honours in Physics, Chemistry, Mathematics and Majors in History. Ranked 11th in country for International Olympiad in Informatics selection tests and received Silver medals for the Singapore Physics Olympiad and Singapore Chemistry Olympiad.

National University of Singapore

Jul-Nov 2011

Read CS1101S Programming Methodology, an accelerated introduction to computer science. Based on MIT's old 6.001 course and uses Structure and Interpretation of Computer Programs as a textbook.

Side Projects

Interactive SICP

xuanji.appspot.com/isicp/

Used javascript web workers to create interactive online version of the classic CS textbook Structure and Interpretation of Computer Programs. Project was voted to #1 spot on Hacker News.

EarthMap

Like Skymap, but for Earth! Uses phone's accelerometer and compass to control direction Google Maps 3D view. Written in 24 hours for AngelHack.

libgit2.js

github.com/zodiac/libgit2.js

Javascript port of the libgit2 git library, compiled using Emscripten.

ankiResource

github.com/bombpersons/ankiResource/

A Django application that lets users share flashcard decks and individual cards for learning Japanese. Automatically parses and de-conjugates sentences for search with the MeCab morphological analyzer.

Work Experience

NUS High School

Present

Trained students for National Olympiad in Informatics by running weekly contests and preparing lessons on basic algorithms and data structures.

Bukit View Secondary School

Present

Coached students for national-level debate tournament.

DSO National Laboratories

Oct-Dec 2009, 2010

Extended a C static analysis framework and a symbolic execution engine targetting LLVM bytecode. Demonstrated 17x speedup over previously published results for specially crafted test cases by mitigating combinatorial explosion.

Institute for Infocomm Research

Mar-Nov 2009

Developed and tested software for directional wireless localization, using ambient WiFi and a directional antenna to determine user's position and bearing.

Skills

Experienced in Python and Javascript. Some experience in C, C++, Racket Scheme, Haskell, TI-BASIC, Tcl and LaTeX. Intermediate Linux user - runs Ubuntu with a tiling window manager and can compile the occasional dependency. Longtime Dvorak (keyboard format) fan.