

xuanji@gmail.com
github.com/zodiac
www.xuanji.li

Education

University of Waterloo Sept 2014

Candidate for Bachelors of Computer Science (Honours, Co-Op)

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.

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.

Side Projects

Interactive SICP

xuanji.appspot.com/isicp/

An interactive online version of the classic CS textbook Structure and Interpretation of Computer Programs where users can edit and run code fragments. 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 Singapore.

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.

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Work Experience

Nugit May 2014-Present

Implemented ad performance business logic in Python. Wrote and styled corresponding front-end visualizations. Designed and wrote task scheduler. Used flask and pandas on the backend and backbone layoutmanager and svg.js on the frontend.

NUS High School Feb-Mar 2014

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

Bukit View Secondary School

Feb-Mar 2014

Coached students for national-level debate tournament, with the team winning both rounds that I took them for.

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 selected test cases by avoiding 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

Proficient in Python and Javascript. Some experience with C, C++, Racket Scheme, Haskell, Tl-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, as well as a fan of Dvorak the composer.