

Li Xuanji

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github.com/zodiac
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Work Experience

Junior Software Developer - Nugit

May 2014-Present

- Implemented automated ad performance analysis in Python.
- Wrote and styled corresponding front-end visualizations.
- Stack: flask, pandas, backbone layoutmanager, svg.js, mongodb.

Informatics Coach - 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.

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.

libgit2.js

github.com/zodiac/libgit2.js

Javascript port of the libgit2 git library, compiled using Emscripten. Includes commit tree and directory visualizer.

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.

Research

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.

Hackathons

Headlights - YHack 2014

2nd place

Helmet mounted Bicycle turn signals controlled by arm signals and the Myo

Myourtual Reality - BoilerMake 2014

Google Services Runner-up Prize

Control 3D objects in a augmented reality platform

Eyedentify - HackMIT 2014

Qualcomm - Best Use of Vuforia

Image and text recognition for Google Glass

Education

University of Waterloo

Sept 2014

Candidate for Bachelors of Computer Science (Honours, Co-Op). Average: 94%, GPA: 4.0/4.0.

National University of Singapore

Jul-Nov 2011

Read CS1101 Programming Methodology, an accelerated introduction to computer science.

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.

Skills

Proficient in Python and Javascript. Intermediate Linux user. Some experience with C, C++, Racket Scheme, Haskell, MongoDB, TI-BASIC, Tcl and LaTeX.