

Yi Zhen | Curriculum Vitae

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Experience

- Apr. 2017 – Present, Software Engineer, *Citigroup Inc.*, Shanghai, P.R.China
- Feb. 2014 – Apr. 2014, Research Assistant Intern, *Guangdong Province Key Laboratory of Computational Science*, Guangzhou, P.R.China

Education

University of Edinburgh <i>Master of Science in Artificial Intelligence, Pass with Merit</i> Dissertation: Deriving Pretty-printing for Haskell, supervised by Prof. Philip Wadler	Edinburgh, U.K. Sep. 2015 – Nov. 2016
Sun Yat-sen University <i>Bachelor of Engineering in Software Engineering, GPA : 3.3</i> Recommended for admission to SYSU and exempted from Gaokao because of well performance at NOIP	Guangzhou, P.R.China Sep. 2011 – Jun. 2015

Major Courses

Machine Learning & Pattern Recognition, Automated Reasoning, Secure Programming, Types and Semantics for Programming Languages, Compiler Optimisation, Artificial Intelligence, Algorithm Design and Analysis, Data Mining, Numerical Computation Methods

Skills

Programming Language and Framework

Languages: Java, C/C++, Python, Haskell, Scala, Prolog, Coq, Scheme

Frameworks & Tools: Spring, Ext JS, JUnit, Mockito, JDBC, JMS, Java servlet, SQL, TensorFlow, Tomcat, Git, SonarQube, Spark, Amazon EC2, NuSMV, Isabelle, Vim, \LaTeX

Professional Skills

- Machine learning and its applications in Natural Language Processing (NLP)
- Full-stack development, RESTful API design and continuous integration for web application

Miscellaneous

School Team

Sun Yat-sen University ASC Student Supercomputer Challenge Team

- Team member* 2014
- ASC14 required the team to wring the most HPC performance out of a 3000W power allowance
 - Mastered the numerical methods, relevant algorithms, multiprocessor and parallel programming
 - Optimized the SU² – a Stanford University developed open-source C++ code for PDE analysis and designed things that adhere to PDE constraints, and assisted in the HPL event

Projects.....

Project Lambda

founder

web app

Nov. 2016 – Jan. 2017

A Hacker-News-like social information platform focusing on IT industry and computer science, which users could publish general news, academic contents and questions through it. Reducing time wasting on nonnutritive information is the major goal

Keywords Haskell 8.0.2, Scotty, Persistent, mime-mail, websockets, Blaze, PostgreSQL, Bootstrap, jQuery

Github Address <https://github.com/ProLambda/Times>

PPrinter: A generic derivable Haskell pretty printer

author

package

Jun. 2016 – Aug. 2016

PPrinter is a Haskell library that supports automatic derivation of pretty printing functions on user defined arbitrary data types (the deriving mechanism supports the automatic generation of instances for functions)

Keywords Dissertation Project, Hackage, Haskell 7.10.2

Hackage Address <http://hackage.haskell.org/package/PPrinter-0.1.0>

Compiler of Small-C

developer

system software

Oct. 2015 – Dec. 2015

A compiler for the subset of C language that compiles the source code to Java bytecode. It contains the essential parts of a standard compiler including lexer, parser, semantic analyzer and code generator

Keywords Java 7, ASM 4

Github Address <https://github.com/i-zhen/Reactor-C>

Interpreter of ML-like Programming Language

developer

local app

Oct. 2015 – Oct. 2015

An interpreter written in scala for a simple ML-like programming language which supports syntactic sugar, type checking, recursive function and first-order lambda calculus

Keywords Scala 2.11.7

Github Address <https://github.com/i-zhen/Apache-Longbow>

The Student Activity Center(SAC) Room Reservation System

full-stack developer

web app, not open source

Apr. 2013 – Jun. 2013

Designed a room reservation system for the Student Activity Center in Sun Yat-sen University. Students can use this system to book rooms in SAC and managed their own information

Keywords Python 2.7.5, Javascript, MySQL, web.py, Bootstrap, jQuery

The Kernel of Online Judge

indie developer

server-side module

Mar. 2012 – Apr. 2012

This is an online system that can compile and execute codes and then test them with pre-constructed data. Users submit code and run it with restrictions (time limit, memory limit, etc.). The output of the code will be compared with the standard output and then return the result to the users

Keywords C/C++, Linux, Linux-API

Github Address <https://github.com/i-zhen/Simple-OJ-core>

Awards

Academic Contests.....

First Prize and Highest Linpack Award

The ASC Student Supercomputer Challenge (ASC14)

2014

Set a new world record of HPL(Linpack) performance and won ¥10,000 CNY

Bronze Medal (Third Prize)

The ACM-ICPC China Guangdong Provincial Programming Contest (GDCPC)

2014

Two-time recipient of First Prize

The National Olympiad in Informatics in Provinces (NOIP)

2009&2008