Yi Zhen | Curriculum Vitae

97-401, Jinxiu Rd, Pudongxin District – Shanghai 200000 – China

+86 177 1768 7328 • iamzhenyi@gmail.com • izhen.me
i-zhen • izhenyi

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 **Edinburgh, U.K.**
Master of Science in Artificial Intelligence, Pass with Merit *Sep. 2015 – Nov. 2016*
Dissertation: Deriving Pretty-printing for Haskell, supervised by Prof. Philip Wadler

Sun Yat-sen University **Guangzhou, P.R.China**
Bachelor of Engineering in Software Engineering, GPA : 3.3 *Sep. 2011 – Jun. 2015*
Recommended for admission to SYSU and exempted from Gaokao because of well performance at NOIP

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 Knowledge Representation (Knowledge Graph)
- 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, heterogeneous and multiprocessor programming
- Optimized the SU^2 – 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

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*