Yi Zhen | Curriculum Vitae

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Experience

- Mar. 2021 – Present, Senior Software Engineer(P7), *Ant Group*, Shanghai, P.R.China
- Nov. 2018 – Mar. 2021, Software Engineer, *Huawei Research*, Shanghai, P.R.China
- Apr. 2017 – Nov. 2018, Software Engineer, *Citigroup*, Shanghai, P.R.China

Job Projects

Project Manager; R&D Engineer **Ant Group**
Research and development, project manager of Gödel project *Mar. 2021 – Present*
Gödel Data Analytics Engine Datalog-based Query Programming Language; Powered by Soufflé
Semi-Parsing System Persistent Robust(Fault Tolerance) Compiling System for C/C++/ObjC

Tech Lead; R&D Engineer **Huawei Research**
Development and leading the architecture design *Nov. 2018 – Mar. 2021*
Bitfun Codeless Platform Lowcode Platform for UI Design; SwiftUI-like Plugin for VSCode/IntelliJ
HMS Toolkit A plug-in for integrating the HMS Core for developers
Ark Compiler Compiling Android Dex to MapleVM/Runtime

Development Engineer **Citigroup**
Development and Continuous Integration *Apr. 2017 – Nov. 2018*
WIRE Wire Transfer system for block trading agent
EWARA Anti money laundering platform
HAMSTER AI project for bank statement understanding

Miscellaneous

Publications

- Z. Cao, **Y. Zhen**, G. Fan and S. Gao, "TokenPatronus: A Decentralized NFT Anti-theft Mechanism," arXiv:2208.05168 [cs.CR], Aug. 2022. (CESC 2022 as a work-in-progress paper)

Side Projects

ERC721G: Anti-Theft ERC721 Solution **author**
web3 app *Jun. 2022 – Aug. 2022*
World's First Anti-Theft NFT Series and Solution: A universal technical solution to be adapted to any ERC721 standard smart contract to help NFT holders guard their property security jointly
Github Address `https://github.com/turtlecasedao/OpenERC721G`
OpenSea Address `https://opensea.io/collection/turtle-case-gang`

Project Lambda **founder**
web2 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
Keywords Haskell 8.0.2, Scotty, Persistent, mime-mail, websockets, Blaze, PostgreSQL, Bootstrap, jQuery
Github Address `https://github.com/ProLambda/Times`
Chinese Blog Article `https://izhen.me/2017/08/20/aws-lambda/`

PPrinter: A generic derivable Haskell pretty printer **author**
Haskell Library - 3525 times download till 09/20/2022 *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`

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

Professional Skills

Programming Language and Framework

Language: Rust, Solidity, TypeScript, Haskell, C/C++, Java, Python, Scala, Prolog, Coq, SQL

Framework: Hardhat, web3.js/ether.js, clangd/vscode-clangd, Spring, JMS, Mockito, JDBC

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
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*

Education

University of Edinburgh **Edinburgh, U.K.**
Master of Science in Artificial Intelligence *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 *Sep. 2011 – Jun. 2015*
Recommended for admission to SYSU and exempted from Gaokao because of well performance at NOIP