Yi Zhen | Curriculum Vitae

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Experience

- Mar. 2021 – Present, Senior Software Engineer, *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

PM & Chief Developer **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 **Huawei Research**
Development and leading the architecture design *Nov. 2018 – Mar. 2021*
Bitfun Codeless Platform Lowcode platform for UI Design; SwiftUI-like plug-in for VSCode/IntelliJ
HMS Toolkit IDE plug-in provides all the tools users need to develop their own HMS Core-integrated app
OpenArkCompiler Unified programming platform supporting multiple devices and languages

R&D Engineer **Citigroup**
Development and Continuous Integration *Apr. 2017 – Nov. 2018*
WIRE Wire transfer system of block trade agent to book transfer and income
EWARA Anti-Money Laundering risk control system of data collection and management, risk value analysis
HAMSTER Experimental machine learning project of 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.

Side Projects

ERC721G: Anti-Theft ERC721 Solution **author**
web3 smart contract *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`
Website Address `http://sweetpotato.ai`

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)
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
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/Cairo, TypeScript, Haskell, C/C++, Java, Python, Scala, Prolog, Coq

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

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