

Zihe Huang

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EDUCATION

UNIV OF MICHIGAN

MENG IN SYSTEMS

ENGINEERING AND DESIGN

Dec 2021 | Ann Arbor

GPA: 3.964

RICE UNIVERSITY

BS IN ELECTRICAL

ENGINEERING

May 2015 | Houston, TX

LINKS

github.com/zihehuang

linkedin.com/in/zihe-huang-01897431/

SKILLS

PROGRAMMING

Proficient:

Scala • Javascript • Python

Typescript • Java

Comfortable:

HTML/CSS • Bash • Matlab

Familiar:

Solidity • C/C++ • Verilog

PHP • \LaTeX

SOFTWARE

Linux • Git • VIM • NodeJS

Django • EagleCAD • KiCad

Allegro PCB • FreeRTOS

Adobe Suite • Android • JIRA

DEVOPS

EC2 • Kubernetes • S3 •

GrayLog • Elastic Beanstalk •

CloudFront

Route 53 • Docker • ELK Stack

HARDWARE

BeagleBone • Raspberry Pi •

CortexM3

MSP430 • Arduino • MC9S08

Oscilloscope • Function

Generator • Laser Cutter

AWARDS

2015 - Excellence in Senior Design

2015 - 3rd in Rice Owl Open Student Startup Competition

2014 - 2nd in Rice

Undergraduate Elevator Pitch Competition

EXPERIENCE

CHRONICLED, INC | SENIOR SOFTWARE ENGINEER

July 2018 - Present | Vancouver, Canada

- Led development effort on end-to-end pharmaceutical revenue management system integration. Resolved critical go-live blockers through live debug sessions with enterprise customers. Actively listening to customer requests and working directly with Product Managers on defining tasks and prioritizing features.
- Designed and delivered the integration that synchronizes over 10,000 commercial contracts and 500,000 trading partners from Pfizer, Genentech, and Grifols to the core Mediledger system.
- Designed and developed an EDI 845 aggregation system that supports up to 1,000,000 trading partners and price tiers per message, a 10x improvement compared to the Model N Flex notification system. The system is integrated with SAP in production via AS2.
- Standardized hiring procedures and performed data analysis on candidate screening

CHRONICLED, INC | BLOCKCHAIN ENGINEER

Oct 2017 - Jun 2018 | San Francisco, CA

- Designed and implemented various blockchain software solutions for Mediledger platform, including blockchain synchronization module, P2P communication protocols, as well as end-to-end blockchain tests.
- Integrating EPCIS-compliant transfer of custody logic with IoT tagged physical goods such as precious metal and pharmaceutical trading items, ensuring the goods are tracked and traced on the blockchain and in the real world.

TOPL, LLC | CO-FOUNDER + BLOCKCHAIN ENGINEER

Jan 2017 - Oct 2017 | Houston, TX

- Developed a commodity-backed cryptocurrency platform aimed to provide better access to capital for developing world commodity producers and better returns for investors using Scorex 2.
- Implemented and tested various types of blockchain transactions such as contract creations, permissioned access to certain contract methods, as well as state and network level synchronization and utilities such as bloom filter.
- Provided practical solutions to malicious incentives within the network by incorporating mandatory risk pooling and requiring collateral bootstrap to activate certain actors.

TOPL, LLC | CO-FOUNDER + DISTRIBUTED SYSTEM ENGINEER

Nov 2015 - Jan 2017 | Houston, TX

- Developed a permissioned blockchain payment and customer engagement platform powered by Go-ethereum and NodeJS REST API that is capable of handling 1800 requests/minute, as well as a novel mobile payment method using Bluetooth Beacon technologies.
- Integrated the REST API with a logging and analytics server powered by GrayLog that tracks API usage in real time.
- Created upgradeable solidity smart contracts on EVMs and an internal bookkeeping software that keeps track of company's assets and liabilities. Maintained company AWS resources and performed DevOps duties.

PARKIT | SOFTWARE ENGINEER

June 2015 - December 2015 | Houston, TX

- Developed a computer vision system that achieved over 99% accuracy at recognizing parked vehicles in a parking lot.
- Improved the company's web app for parking operators at Texas Medical Center and Rice University, providing real-time parking lot occupancy and occupancy tracking for each day.
- Designed a wireless architecture that enabled microcomputers to remotely upload JSON data to AWS.