SIJIA (KEN) ZHU

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EDUCATION

Northeastern University Silicon Valley**,** San Jose,CA   Sep 2017 - May 2020

Master of Science in Computer Science   Award: CCIS Innovative Scholars Scholarship GPA :3.8

Southern California Institute of Architecture, Los Angeles,CA Master of Design   Sep 2014 - Sep 2015

North China University of Science and Technology, Bachelor of Engineering   Sep 2005 - Sep 2010

TECHNICAL KNOWLEDGE

Blockchain :	Solidity, Motoko, Remix, Foundary
Web Technologies:	Java, React, Redux, Spring Boot, Angular, Node.js, JQuery, React Native, Ruby on Rails
Database:	MySQL, MongoDB, PostgreSQL
Courses:	Scalable Distributed Systems, Computer Human Interaction, Data Mining Techniques, Machine Learning，Database Management Systems, MEAN Stack Web Development, Algorithms Computer Systems, Object Oriented Design & Analysis, Data Structures

WORK EXPERIENCE

LianAnChengDu (Beosin), Chengdu, China   July 2022 - Apr 2023

Blockchain Security Engineer https://github.com/pazsj003/smartContractAuditing

- Smart Contract Audit. Solidity project (ETH, Arbitrum): ERC20, ERC721, UniswapV2, NFT Market, NFT Auction, ETH 2.0 staking like project, SafeMoon like project. ICP chain project: DIP20
- Security Incident Response, Funds Tracking, Overseas Technical Communication, Audit Report Template Update

BottlesTonight, San Francisco, CA   Jan 2019 - Apr 2019

Software Engineer Intern

- Implemented new features on website (facebook login, display subscribe clubs/events on profile etc) and admin dashboard(filters for searching clubs/users) to enhanced user experience by using React & Redux and Rails
- Simplified backend APIs which handled more resource requests and cut off respone time for all frontend platforms using **Ruby On Rails** and **PostgreSQL**
- Created **Rails tasks** in Heroku scheduler to trigger scraper apps that reduced **twenty** working hours every week
- Improved algorithms for price change tool and city-subscriber apps which saved **90%** of running time every day

SELECTED PROJECTS

NodeDAOProtocol Audit   Jan 2023 - Feb 2023

- Smart contract of liquid staking derivatives for ETH 2.0. Audit includes: Oracle module, Registry module, Rewards module, TimelockController module and staking module
- Findings: 1 Critical risk, 3 High risk,7 Medium risk, 3 Low risk and 7 Info risk
- Critical risk: Function cannot update multiple cycles of beacon chain data
- High risk: Inappropriate architecture design
- High risk: Existence arbitrage attack
- High risk: Contracts can't receive ETH transfers

Fitness-Network Website   May 2018 - Aug 2018

- Designed **Social Network** for fitness includes user profile, friends, posts, notifications, gyms by React, Spring Boot.
- Collected data from Yelp and Google Map **APIs** and saved to own database by MySQL which **3X** faster in response
- Devised a **Recommendation System** to recommend gyms and coaches by user preference which can auto scheduling fitness plan based on user & coach free time slot. It reduced **80%** of searching time to find a coach and increased 200% interaction between coaches and users
- Built a **Privacy-Preserving mechanism** for control multi-level access and communications of users and gyms which can decreased **50%** spam or harassing messages and increased 60% personal information protection

朱思佳 KEN

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教育经历

美国东北大学｜计算机科学硕士｜东北大学CCIS创新奖学金｜GPA:3.8　　　　　　　　　　　　2017.09 - 2020.05

分布式系统, 网站开发, 数据库管理, 算法, 计算机系统, 数据结构, *区块链技术与应用*

美国南加州建筑研究所｜设计学硕士　　　　　　　　　　　　　　　　　　　　　　　　　　2014.09 - 2015.09

华北理工大学｜工学学士　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2005.09 - 2010.05

技能

- **区块链：** Solidity，Motoko, Remix, Foundary
- **开发：** Java 并发编程（并发工具, CAS,AQS,并发容器,线程池,JMM），Jvm（垃圾回收,性能调优），Spring, RocketMQ，MySQL, Mycat, Redis

工作经历

成都链安科技有限公司(Beosin)　　　　　　　　　　　　　　　　　　　　　　　　　　　2022.07 - 至今

区块链安全工程师 https://github.com/pazsj003/smartContractAuditing　　　　　　　　　　　　　　成都

- Solidity项目审计（ETH，Arbitrum），包括ERC20，ERC721，类uniswapV2，类NFT市场，NFT拍卖项目，NFT游戏，类Lido 以太坊2.0质押，类SafeMoon项目，DEX 项目，DAO项目。ICP链 类 DIP20
- 安全事件分析，资金追踪。海外技术沟通。审计模版更新

BottlesTonight　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2019.01 - 2019.04

软件工程师实习　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　美国旧金山

- 在网站上实现新功能(Facebook登录, 在个人资料上显示订阅俱乐部/活动等)和管理页面(搜索过滤功能), 使用Redux/Rails
- 优化改进后端APIs, 优化数据库读取时间(垂直分表), 改进了价格变化工具和城市用户App的算法(缩小范围搜索), 每天节省90%的运行时间, 使用Ruby on Rails和PostgreSQL
- 在Heroku scheduler中创建Rails任务来自动触发爬虫应用程序可以减少每周数十小时工作时间

项目经历

NodeDAOProtocol　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2023.01 - 2023.02

主审，副审

- 流动性抵押衍生品的以太坊2.0 智能合约。本次审核包括：Oracle模块，Registry模块，Rewards模块，TimelockController模块和stake模块
- 2次审计发现 1 Critical-risk, 3 High-risk,7 Medium-risk, 3 Low-risk and 7 Info-risk

健身网络　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2018.05 - 2018.08

- 为健身而设计的社交网络(用户页面、朋友、帖子、通知、健身房), React & Spring Boot
- 从Yelp和Google Map APIs 中收集健身房数据, 并通过MySQL保存到自己的数据库中
- 设计了一个根据用户偏好来推荐健身房和教练的推荐系统，该系统可以根据用户和教练的空闲时间段自动安排健身计划. 大大降低用户的寻找教练的时间, 提高教练和用户之间的接触机会
- 建立隐私保护机制, 控制用户和健身房的多级访问和通信, 可减少一半的垃圾邮件和骚扰信息, 提高一倍个人信息保护