

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, Remix, Foundry, Truffle, Ganache, Hardhat, Tenderly, Openchain, Phalcon
Web Technologies:	Java, Javascript, typescript, React, Redux, Spring Boot, Angular, Node.js, JQuery, React Native, Ruby on Rails, MySQL, MongoDB, PostgreSQL

WORK EXPERIENCE

Flexible Shark Product (https://github.com/pazsj003/sharkInvest)	Jun 2024 - Nov 2024
Smart Contract Development (Independent Project) Solidity/Foundry	
<ul style="list-style-type: none">Developed a multi-asset, principal-guaranteed Shark product on the DODO platform, offering reliable pricing for both stable and volatile assets, with 7-180 day terms and a one-click redeposit feature, tailored to support cryptocurrencies across various risk levels.Integrated Shark Fin interest calculation into the D3Vault contract, working alongside DODO's native interest logic while maintaining compatibility with its lending and LP token conversion systems.Designed settlement algorithms for different risk profiles, including a spot price method for low-risk assets and a TWAP-like algorithm for higher-risk assets to mitigate volatility and optimize user returns.	
Secure3 (Audit Contest Platform https://www.secure3.io), Remote	Jun 2023 - Nov 2023
Blockchain Security Engineer Solidity/Truffle/Hardhat/Foundry	
<ul style="list-style-type: none">Participated in all processes of smart contract audit contest: estimation, kick-off, grading, audit, report, archive, feedback responseSecurity Incident Response, website scape, audit reports benchmark, team code maintenance and update	
LianAnChengDu (Beosin https://beosin.com), Chengdu, China	July 2022 - Apr 2023
Blockchain Security Engineer Solidity/Truffle/Hardhat/Foundry	
<ul style="list-style-type: none">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: DIP20Security Incident Response, Funds Tracking, Overseas Technical Communication, Audit Report Template Update	
BottlesTonight , San Francisco, CA	Jan 2019 - Apr 2019
Software Engineer Intern React/Redux/Rails/PostgreSQL	
<ul style="list-style-type: none">Implemented new features on website (facebook login, display subscribe clubs/events on profile etc) and admin dashboard(filters for searching clubs/users)Simplified backend APIs and improved algorithms for price change tool and city-subscriber apps to cut off response time for all frontend platforms	

SELECTED PROJECTS

Audit Contest in Secure3 (https://github.com/pazsj003/smartContractAuditing)	Jun 2023 - Nov 2023
<ul style="list-style-type: none">Contest Grading: DappOS(1k code line, 20 submissions grading), Fun Wallet(2k,131), Gambit-wemix(1.2k,47), Lynex(2.5k,116), TakerProtocol(4.7k,38), Nativ3DAO(1.1k,50)Audit Reports Benchmark: Fun Wallet, Gambit	
Fitness-Network Website React/Spring Boot/MySQL	Aug 2018 - Aug 2018
<ul style="list-style-type: none">Designed Social Network for fitness includes profile, friends, posts, gyms with yelp and google map APIs.Devised a system to recommend gyms and coaches by user preference which can auto scheduling fitness plan based on user & coach free time slot.Built a mechanism for control multi-level access and communications of users and gyms	

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微信: ken_zhusijia | 个人网站: <https://github.com/pazsj003/smartContractAuditing>

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

- 区块链智能合约: Solidity, Remix, Foundry, Truffle, Ganache, Hardhat, Tenderly, Openchain, Phalcon
- 前后端网站开发: Java, Javascript, typescript, React, Redux, Spring Boot, Node.js, React Native, Ruby, MySQL, MongoDB, PostgreSQL

工作经历

更加灵活的鲨鱼鳍产品 (<https://github.com/pazsj003/sharkInvest>) 2024.06 - 2024.11

智能合约开发 (独立完成) Solidity/Foundry

- 开发了一款基于 DODO 平台的多资产保本型“鲨鱼鳍”产品, 提供稳定币和高波动性资产的可靠定价, 支持 7 至 180 天的灵活周期, 并具备到期一键续投功能, 适配不同风险等级的加密货币。
- 在 D3Vault 合约中集成了“鲨鱼鳍”的利息计算逻辑, 与 DODO 原生利息逻辑并行运行, 同时确保与其借贷系统及 LP 代币换算机制的兼容性。
- 设计了适用于不同风险资产的结算算法, 包括针对低风险资产的价格算法, 以及针对高风险资产的 TWAP 类算法, 通过降低波动性来优化用户收益。

Secure3 (竞赛审计平台, <https://www.secure3.io>) 2023.06 - 2023.11

区块链安全工程师 Solidity/Truffle/Hardhat/Foundry

远程

- 参与智能合约审计竞赛项目所有流程, 包括项目预估, 上线竞赛准备, 打分, 审计, 报告, 归档, 客户沟通。打分标准的制定, 归纳漏洞点
- 安全事件整理收集分析发表, 定期爬取网站数据, 审计报告对比研究, 团队项目代码更新维护

成都链安科技有限公司 (Beosin, <https://beosin.com>) 2022.07 - 2023.04

区块链安全工程师 Solidity/Truffle/Hardhat/Foundry

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 - 2024.04

软件工程师实习 Redux/Rails/PostgreSQL

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)。
- 优化改进后端APIs, 优化数据库读取, 改进价格变化工具和城市用户App的算法

项目经历

Secure3 竞赛审计项目 (<https://github.com/pazsj003/smartContractAuditing>) 2023.06 - 2023.11

- 审计打分: DappOS(1k code, 20 submission grading) Fun Wallet(2k,131) Gambit-wemix(1.2k,47) Lynex(2.5k,116) TakerProtocol(4.7k,38)
- 审计报告评比: Fun Wallet, Gambit

健身网络 React & Spring Boot 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), 从Yelp和Google Map APIs 中收集健身房数据, 保存到自己的数据库中
- 设计一个推荐系统, 可以根据用户和教练的空闲时间段自动安排健身计划. 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