简 历

个人信息

姓　名：	黄锦坤	性　别：	男
出生日期：	1990 年 08 月 25 日	居 住 地：	北京
工作年限：	四年以上	电子邮件：	berryjamcoding@gmail.com
手机（微信）：156-0080-4656		毕业院校：	清华大学-软件学院

关 键 词：　　RUST　Golang　CPP　Distribution

工作期望&自我评价

1. 语言：　RUST、Golang、C++、Shell
2. 高并发场景、分布式系统设计经验
3. 良好的数据结构和算法基础
4. 掌握关系数据库 Postgres 及 Redis 等 NoSQL 相关知识
5. 了解以太坊和比特币 P2P 网络、密码学、分布式账本技术等区块链核心技术
6. 喜欢阅读和分享与技术相关的内容

个人写的与分布式系统、区块链相关博客：https://berryjam.github.io/

个人 github：https://github.com/berryjam

工作经历&项目经历

DavionLabs 区块链工程师 2021.10-至今

1、基于 ZkSync 的 Swap

- 使用 Zk Rollup 的方式对的 Curve Swap 进行扩展
- 开发 CreatePair、AddLiquidity、RemoveLiquidity、Swap 交易的电路
- 支持跨链，对 Watcher、Sender、合约进行改造
- 对接 celestia，支持 validium 模式

2、基于 ZkSync 的 Perpetual Contract

- 使用 Zk Rollup 的方式对中心化的永续合约进行扩展
- 开发了 Liquidate、Oracle Price、Deleverage 等交易的电路
- 添加用户注册、二层密钥管理等模块
- 优化二层出块逻辑

- 支持 Alternative Tx，对错误交易进行替换补偿

腾讯科技（北京）有限公司 9 级工程师 2020.9-2021.10

1、腾讯视频前贴片广告动态优化项目
- 对前贴片广告时长作个性化优化，在用户指标不明显下降情况下提升前贴片广告收入
- 设计开发前贴广告的 rerank 模块，搭建个性化模型用的数据管道和离线、在线服务
- ab 实验&策略模块的设计开发
- 引入初版模型后前贴收入提升 5%+

2、腾讯视频商业化免广告、沉浸式广告等服务重构
- 对腾讯视频的免广告、沉浸式场景、信息流相关服务使用新技术栈重构并平滑上线
- 使用 trpc-go 对商业化相关项目进行重构，对服务可用性作优化
- 开发了流量回放模块用于重构验证
- 推动优化服务部署形态，从同城多机房至三地部署

北京蚂蚁云金融信息服务有限公司 高级研发工程师 2019.5-2020.9

1、蚂蚁区块链 API 网关系统
- 蚂蚁区块链 API 网关系统是蚂蚁金服区块链提供给内外业务统一接入系统
- 负责蚂蚁区块链接入层整体架构设计开发、业务技术推演
- 个人设计开发网关服务端的统一接入、安全防护、流量管控、计算存储资源自分配模块，客户端侧开发并发布了 Java、Golang SDK 和集成 JS SDK

2、智能合约云服务
- 蚂蚁智能合约云服务旨在提供区块链智能合约相关的服务，提供 Cloud IDE、源码自动化审计服务
- 承接 Cloud IDE 项目，规划和落地智能合约安全服务
- 负责 Cloud IDE 迭代以保持蚂蚁的 Solidity、Wasm 合约与开源社区能力同步；开发了基于数据流分析的 C++/Wasm 合约静态分析服务&完成动态模糊测试服务原型，规划形式化验证服务
- 带领大安全、区块链跨部门合作的智能合约静态分析项目上线;

3、蚂蚁区块链 BaaS 云平台
- 蚂蚁区块链 BaaS 是基于阿里云/蚂蚁金融云提供金融级企业区块链平台
- 参与 BaaS 云平台和私有化平台迭代开发

- 新特性开发；优化区块链 K8S 计算、存储、网络资源创建流程及对应的 Helm Chart
- 云平台方面，完成了混合部署等特性开发，实现了可用性优化改造；私有化平台方面，支撑了若干私有化项目的交付。

北京华为数字技术有限公司 研发工程师 2017.6-2019.3 ：

1、华为 BaaS 区块链云平台

- 华为 BaaS 是基于 fabric、kubernetes 对外提供企业级区块链解决方案的云平台
- 参加公测前后相关迭代开发
- fabric 的 K8S 部署方案原型开发；开发区块链服务管控相关 API，证书、用户侧数据存储模块
- 参与了华为 BaaS 平台从原型到公有云上线全流程，以及公测后的若干版本迭代。

2、车车科技阿保互助保险

- 阿保互助保险是车车科技依托于华为 baas 平台的一款金融互助保险项目，其原型作为合作项目参展 2018 年 3 月 22 日华为生态大会。
- 参与阿保互助保险项目的需求分析，与客户一起完成用户申请会员、加入理赔计划、发起理赔、审核理赔、均摊赔付 5 个核心场景分析，输出相关的 chaincode 接口。
- 开发完阿保互助保险项目原型，协助车车科技开发人员使用 fabric-sdk-java 连接 BaaS 平台，存储相关业务数据，基于 blockchain-explorer 提供区块链可视化服务。

教育经历

2014/9 -- 2017/7   清华大学   软件工程   硕士
专业课程有：分布式系统设计、算法分析与设计、软件形式化验证、软件项目管理、软件体系结构、自动机与形式逻辑、机器学习、大规模多媒体数据检索与管理、组合数学、软件测试。

研究所：清华大学软件系统与工程研究所
研究方向：程序形式化验证
项目经历：Ceagle（清华大学的形式化验证工具）、中车集团机车自动控制系统案例分析、静态驱动程序验证工具。

2008/9 -- 2012/7   武汉大学   软件工程   本科
专业课程：数据结构、操作系统、计算机网络、计算机组成原理、编译原理与实践、面向对象设计、C++程序设计、数据库系统原理与实践、unix 编程、软件工程。

证　书

2013/12   全国计算机软件专业资格水平
              考试中级资格：软件设计师

语言能力

英语等级：   英语六级

Resume

Personal information

Name：	Jinkun Huang	Sex：	male
Birthday：	1990.10.13	Residence：	Beijing
Experience：	3 years++	email：	berryjamcoding@gmail.com
Tel：	156-0080-4656	Graduated school：	School of Software，Tsinghua University
Key words：	Golang Java Shell Distribution		

Job expectations&Self-evaluation

1. Language： Golang（3 years++）、Java（2 years++）、C/C++、Shell、SQL、JSON
2. High concurrency scenarios, distributed system design experience
3. Good data structure and algorithm foundation
4. Master relational database&NoSQL releated knowledge such as Redis
5. Like to read and share technology-related content
6. Job expectations：Cloud platform architecture design and development, grow with the team

Personal tech blog： https://berryjam.github.io/

github： https://github.com/berryjam

Work experience&project experience

Ant Financial   Senior R&D Engineer   2019.5-now

1、Ant Blockchain API Gateway System

- The Ant Blockchain API Gateway System is a unified access system provided by the Ant Financial Blockchain for internal and external businesses
- Responsible for the overall architecture design and development of the ant block link entry layer, and business technology deduction
- Personally design and develop the unified access, security protection, traffic control, computing and storage resource self-allocation module of the gateway server, and the client side developed and released Java, Golang SDK and integrated JS SDK
- The gateway layer of the ant blockchain was launched from 0-1, connected to the internal business line 10+, and provided access services in the form of an open alliance

chain. The business supported an average daily call volume of 150 million and completed 5W QPS Gateway horizontal expansion scheme

2、Smart contract cloud service

- The ant smart contract cloud service aims to provide services related to blockchain smart contracts, providing Cloud IDE and source code automated audit services
- Undertake the Cloud IDE project, plan and implement smart contract security services
- Responsible for Cloud IDE iteration to keep Ant's Solidity and Wasm contracts synchronized with open source community capabilities; developed C++/Wasm contract static analysis services based on data flow analysis & completed dynamic fuzzing service prototypes, and planned formal verification services
- Lead the smart contract static analysis project of big security and blockchain cross-department cooperation to go online；During the period, applied for the patent of "A Java Smart Contract Implementation Scheme Based on Wasm Virtual Machine", related blogs：https://berryjam.github.io/2020/07/Java 智能合约实现探索/

3、Ant Blockchain BaaS Cloud Platform

- Ant Blockchain BaaS is a financial-level enterprise blockchain platform based on Alibaba Cloud/Ant Financial Cloud
- Participate in the iterative development of BaaS cloud platform and privatization platform
- New feature development; optimization of blockchain K8S calculation, storage, network resource creation process and corresponding Helm Chart
- For the cloud platform, the development of features such as hybrid deployment was completed, and availability optimization and transformation were realized; for the privatization platform, it supported the delivery of several privatization projects

---

DiDi Chuxing   Senior R&D Engineer   2018.6-2019.3

1、Business middleware-spike system

- The spike system of the Didi Growth Team is an internal business middleware system that provides general processing capabilities for high instantaneous traffic
- Design and development of high concurrency processing capacity of spike system
- Designed and developed spike anti-cheating, anti-oversold, current limiting, and flat peak modules

- The project was launched online, and 30+ city marketing activities were supported at the same time, with a maximum instantaneous flow of 1W QPS

2、Discount Mall
- The discount mall is the sales portal for Didi Chuxing's card and coupon products, and the main operating system of Didi Chuxing's passenger side
- Participate in the reconstruction of the project, use Golang to reconstruct the original PHP system and go online, iterative development
- Completed the technical transformation of related projects and made technical sharing, Among them, "Consistent Hash Algorithm" (Personal submission of Golang implementation of consistent hash algorithm optimization pr: https://github.com/lafikl/consistent/pull/9/files), "ZooKeeper Introduction and Use", "Golang Implementing the principle of replacing the function body at runtime" (blog: https://berryjam.github.io/2018/12/golang to replace the runtime function body and its principle / Individual submission of Golang implementation of monkey patching optimization pr: https:// github.com/bouk/monkey/pull/25/files) has been applied to the project to reduce the data shock rate during expansion, improve the operational efficiency of the project, and increase the core module unit test coverage from 15% to 70%

Huawei   R & D Engineer   2017.6-2018.6   :
1、Huawei BaaS Blockchain Cloud Platform
- Huawei BaaS is a cloud platform that provides enterprise-level blockchain solutions based on fabric and kubernetes
- Participate in related iterative development before and after the public beta
- Prototype development of fabric's K8S deployment plan; development of blockchain service management and control related APIs, certificates, and user-side data storage modules
- Participated in the entire process of Huawei's BaaS platform from prototype to public cloud launch, and several iterations after the public test

2、Cheche Technology Abao Mutual Insurance

- Abao Mutual Insurance is a financial mutual insurance project based on Huawei's baas platform by Autotech. Its prototype was exhibited as a cooperative project at the Huawei Ecological Conference on March 22, 2018
- Participate in the demand analysis of the Abao Mutual Insurance Project, and work with customers to complete the analysis of 5 core scenarios of user application for membership, joining the claim plan, initiating claims, reviewing claims, and sharing claims, and output the relevant chaincode interface
- After developing the prototype of the Abao Mutual Insurance Project, assisting car technology developers to use fabric-sdk-java to connect to the BaaS platform, store relevant business data, and provide blockchain visualization services based on blockchain-explorer

Education experience

2014/9 -- 2017/7   Tsinghua University   Software engineering   Master
Professional courses: distributed system design, algorithm analysis and design, software formal verification, software project management, software architecture, automata and formal logic, machine learning, large-scale multimedia data retrieval and management, combinatorial mathematics, software testing

Institute: Institute of Software Systems and Engineering, Tsinghua University
Research direction: formal verification of program
Project experience: Ceagle (formal verification tool of Tsinghua University), case analysis of CRRC locomotive automatic control system, static driver verification tool.

2008/9 -- 2012/7   Wuhan University   Software engineering   Undergraduate
Professional courses: data structure, operating system, computer network, computer composition principle, compilation principle and practice, object-oriented design, C++ programming, database system principle and practice, unix programming, software engineering

Certificate

2013/12	National computer software professional qualification level Intermediate exam qualification: software designer

Language skills

College English Test, Band Six [=CET-6]