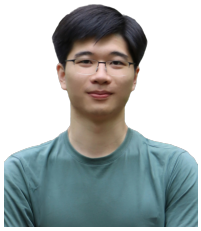
陈希尧



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教育背景

浙江大学 | 计算机科学与技术 | 工学硕士 (2022.09 - 2025.03)

- **GPA**: 91.44/100 (前 10%)
- **研究方向**: 操作系统安全、程序分析、区块链与智能合约安全
- **获奖**: 研究生学业优秀一等奖学金 (2 次)

浙江大学 | 竺可桢荣誉学院混合班 & 计算机科学与技术 | 工学学士 (2018.09 - 2022.06)

- **GPA**: 4.41/5 (混合班前 15%，计科前 10%)
- **主修课程**: C 程序设计 (4.8/5), C 程序设计专题 (5/5), 面向对象程序设计 (5/5), 数字逻辑设计 (5/5), 计算机组成 (5/5), 计算机体系结构 (4.8/5), 操作系统 (5/5), 网络安全原理与实践 (5/5), 软件安全 (5/5)
- **获奖**: 浙江省数学联赛三等奖, 浙江省大学生物理创新竞赛三等奖, 浙江大学三等奖学金 (3 次)
- **荣誉**: 竺可桢荣誉证书, 浙江大学优秀毕业生, 浙江大学优秀毕业论文

福建省厦门第一中学 | 理科 (2015.09 - 2018.06)

- **高考**: 179/200,927 (前 0.1%)
- **获奖**: 全国高中数学联赛省二等奖, 全国高中物理联赛市一等奖, 全国高中生物联赛市一等奖, 全国高中化学联赛市二等奖

工作经历

上海某百亿量化私募 | 量化开发 (2025.04 - 至今) 全职
| 量化开发 (2024.08 - 2024.11) 暑期实习

- 参与交易平台和回测系统的开发；负责与券商和柜台的数据对接；维护实盘交易及策略回测环境的稳定性与可靠性
- 参与策略开发工作，提升交易策略的性能、稳定性及收益率；将交易平台快照索引的查询速度提升 4.3 倍

阿里云 | 基础设施事业部 - 存储 - 对象存储 (OSS) [1] **| 实习生 (2024.05 - 2024.07)** 暑期实习

- 为 OSS 团队开发 Rust SDK，向客户提供使用 OSS 服务的完整开发套件，客户无需关心服务端 API 参数细节即可与之高效交互
- 独立开发原型，包含基础 API 实现及拓展 API 功能模块；代码量 15K，CodeCov 94%，文档完整

BlockSec | 审计平台开发团队 & 漏洞攻击分析团队 | 科研实习生 (2021.09 - 2024.01) 科研实习

- 独立开发针对 Rust 智能合约，基于静态分析的自动化审计工具 Rustle
- 参与团队开发针对以太坊智能合约的自动化审计工具 Anshun
- 独立搭建公司的合约漏洞预警系统，参与公司的漏洞响应工作

国投智能（美亚柏科） | 电子数据取证与智能装备研究院 | 算法工程师实习生 (2020.07 - 2020.08) 日常实习

- 针对电子取证过程中可能存在的图像伪造问题进行识别。通过复现图形学算法，能够准确地检测出图像中难以察觉的拼贴、剪切、拖移、消除等后期处理手段；该功能已成功集成到美亚柏科的电子取证平台

[1] 对象存储是阿里云的核心业务，市场份额居中国首位，全球排名第二，仅次于 AWS S3。

项目经历

Rustle | BlockSec | 独立开发 (2021.10 - 2023.03) *C++, Python*

- 针对 Rust 语言编写的 NEAR 区块链智能合约开发的基于 LLVM 的静态分析工具，解决了 Rust 语言语法复杂、人工审计效率较低且容易漏检的痛点，项目于 GitHub [2] 开源
- 已检测出多个实际存在且受到攻击的高价值漏洞: Stader、Skyward、Rainbow Bridge、Mango (Solana)
- 参与 NEAR MetaBUILD 黑客松并获得 $20,000 USD 奖金；获得 NEAR 基金会 $50,000 USD 开发资金

Aliyun-OSS-Rust-SDK | 阿里云 | 独立开发 (2024.06 - 2024.07) *Rust*

- 主要功能包括: 签名计算与身份校验、访问控制、请求响应包解析、错误重试、文件传输管理、服务接口调用；另外，首创性地利用语言特性提供了一套 codegen 框架用于全流程的配置自定义，大幅提升了 SDK 的易用性和可扩展性，将接口代码冗余减少 87%
- 独立开发原型，包含基础 API 实现及拓展 API 功能模块；代码量 15K，CodeCov 94%，文档完整

Anshun | BlockSec | 项目成员 (2023.04 - 2023.12) *Python*

- 针对 Solidity 语言编写的以太坊智能合约静态分析工具；使用了符号执行、控制流构建、污点分析、依赖计算、路径求解、栈模拟等多种静态分析方法
- 工具在 precision 和 recall 指标上领先学术界及工业界的已知同类型工具；基于该工具建立了链上合约漏洞预警系统，已多次成功预警并挽回了超过 $300K USD 的金融资产
- 与 Web3 头部交易所 Uniswap (成交量、总锁仓量均为第一) 合作，基于该工具框架开发了新版 Uniswap 合约的漏洞检测工具

RV-Kernel [3] | 课程项目 | 独立开发 (2020.10 - 2021.01) *C, RISC-V Asm*

- 从零实现基于 RISC-V 硬件的 Linux 内核，包括内核启动模块、机器态特权态用户态切换、多进程调度器及调度算法、中断与异常机制、基于页表的 MMU 和缺页处理机制、基于 buddy system 和 slub allocator 的内存分配机制、基于 mmap 的内存映射机制及对应系统调用

基于 Watchpoint 的 Linux 内核模块隔离 | 实验室项目 | 项目成员 (2021.07 - 2021.09) *C, AArch64 Asm*

- 与华为 2012 可信实验室的合作项目，用于提升 HarmonyOS 的内核安全性
- Arm 架构中存在 Watchpoint 硬件机制，是作为调试时的硬件断点，在 Load/Store 时被触发；项目旨在利用该机制设计能将驱动与内核进行故障隔离的内核保护机制

C2SafeRust | 实验室项目 | 项目组长 (2021.04 - 2021.06) *C*

- 为解决目前基于 C 的 kernel 中可能存在的安全问题，项目尝试研究出一种自动化的方式将 C 写的内核驱动重写为 Rust 的，并通过 Rust 自带的安全机制来保证内核的安全
- 实现了对于 use-after-free 与 double-free 漏洞的检测与可能的修复

个人技能

- **外语**: TOEFL 97/120、CET-6 631/710
- **工作语言**: 熟悉 C/C++、Python、Rust，了解 Go、Java、JavaScript、Verilog HDL
- **工作栈**: 熟悉 Unix Shell 指令、Makefile 编写、Git 与常用 CI/CD 工具使用、Docker 使用与镜像编写，了解常用 SQL 指令与 ORM 交互、LLVM Toolchain 使用

[2] https://github.com/blocksecteam/rustle

[3] https://github.com/futuretech6/RV-Kernel

Xiyao Chen

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Education

Zhejiang University | Computer Science | Master of Engineering (2022.09 - 2025.03)

- **GPA**: 91.44/100 (Top 10%)

Zhejiang University | Mixed Class (Chu Kochen Honors College) & Computer Science | Bachelor of Engineering (2018.09 - 2022.06)

- **GPA**: 4.41/5 (Top 15% in Mixed Class, Top 10% in Computer Science)

Employment

A quantitative trading firm [4] | **Quantitative Developer (2025.04 - Present)** *Permanent*
| **Quantitative Developer (2024.08 - 2024.11)** *Summer Intern*

- Participated in the development of a trading platform and simulation system; responsible for data integration with brokers and trading desks; maintained the stability and reliability of the live trading and strategy simulation environments.
- Participated in strategy development to improve the performance, stability, and profitability of trading strategies; Increased the query speed of the trading platform snapshot index by 4.3 times.

Alibaba Cloud | Infrastructure - Storage - Object Storage Service (OSS) [5] | **Intern (2024.05 - 2024.07)** *Summer Intern*

- Developed a Rust SDK for the OSS team to provide customers with a complete development toolkit for using OSS services.
- Independently developed a prototype that includes basic API implementations and extended API feature modules. The codebase consists of 15K lines, with a CodeCov of 94%, and complete documentation.

BlockSec | Audit Development Team & Vulnerability Analysis Team | Research Intern (2021.09 - 2024.01) *Research Intern*

- Independently developed Rustle, an automated audit tool for Rust smart contracts based on static analysis.
- Contributed to the development of automated audit tool Anshun for Ethereum smart contracts.
- Independently established the company's contract vulnerability alert system and participated in the company's vulnerability response efforts.

SDIC Intelligence (Meiya Pico) | Institute of Electronic Data Forensics and Intelligent Equipment Research AI Development Center | Algorithm Engineer Intern (2020.07 - 2020.08) *Daily Intern*

- Developed algorithms to identify possible image tampering. The functionality has been integrated into the company's product.

[4] A Shanghai-based quantitative trading firm with assets under management (AUM) over 10 billion CNY.

[5] OSS is a core business of Alibaba Cloud, holding the largest market share in China and ranking second globally, just behind AWS S3.

Projects

Rustle | BlockSec | Independent Development (2021.10 - 2023.03) *C++, Python*

- Developed an LLVM-based static analysis tool for NEAR blockchain smart contracts developed in Rust, addressing the challenges of Rust's complex syntax and the inefficiency of manual auditing. The project is open source on GitHub [6].
- Detected and reported several real-world and high-value vulnerabilities in projects such as Stader, Skyward, Rainbow Bridge, and Mango (Solana).
- Participated in the NEAR MetaBUILD hackathon and won a $20,000 USD prize; Received $50,000 USD in development funding from the NEAR Foundation.

Aliyun-OSS-Rust-SDK | Alibaba Cloud | Independent Development (2024.06 - 2024.07) *Rust*

- Customers can directly use the SDK in their Rust projects to interact with the Object Storage Service (OSS) server without knowledge of server-side interface implementations. A codegen framework was also developed, cutting code redundancy by 87% while greatly improving SDK usability and scalability.
- Independently developed a prototype that includes basic API implementations and extended API feature modules. The codebase comprises 15K lines, with 94% CodeCov, and complete documentation.

Anshun | BlockSec | Member (2023.04 - 2023.12) *Python*

- Developed a static analysis tool for Ethereum smart contracts written in Solidity, utilizing various static analysis methods.
- Built an on-chain alert system based on Anshun. Successfully provided multiple timely warnings, preventing the loss of over $300,000 USD.
- Developed a static analysis tool based on Anshun in collaboration with the Web3 leading exchange Uniswap, to analyze the latest version of its contract extensions.

RV-Kernel [7] | Course Project | Independent Development (2020.10 - 2021.01) *C, RISC-V Asm*

- Implemented a Linux kernel from scratch based on RISC-V hardware.

Watchpoint-Based Kernel Isolation | Laboratory | Member (2021.07 - 2021.09) *C, AArch64 Asm*

- Collaborative project with Huawei aimed at enhancing HarmonyOS's kernel security.
- Leveraged the hardware mechanism in Arm architecture for fault isolation between drivers and the kernel.

C2SafeRust | Laboratory | Leader (2021.04 - 2021.06) *C*

- Attempted to automatically rewrite C-written kernel drivers to Rust to address potential security issues in C-based kernels. Ensured kernel safety using Rust's built-in security mechanisms.
- Implemented detection and potential fixes for Use-After-Free (UAF) and Double-Free vulnerabilities.

Skills

- **Languages**: TOEFL 97/120, CET-6 631/710
- **Programming Languages**: Proficient in C/C++, Python, Rust; Familiar with Go, Java, JavaScript, Verilog HDL
- **Toolkit**: Proficient in Unix Shell, Makefile, Git (CI/CD), Docker (Dockerfile); Familiar with SQL (ORM), LLVM Toolchain

[6] https://github.com/blocksecteam/rustle

[7] https://github.com/futuretech6/RV-Kernel