

# Yiming Jing

yimingjing.cn@gmail.com ◊ (650) 386-0625

<https://yimingjing.com/about>

## PROFILE

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Researcher and engineer with passion and capabilities to tackle challenging system security problems. Rust language zealot and speaker. Previous Android security researcher. PhD in Computer Science.

## WORK EXPERIENCE

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**Senior Research Scientist II (T6), Baidu USA, Sunnyvale, CA** 09/2018 - 09/2019

**Senior Research Scientist (T5), Baidu USA, Sunnyvale, CA** 11/2016 - 09/2018

- **MesaLink** - <https://mesalink.io> - Tech Lead

A **memory-safe** TLS library that implements OpenSSL C APIs with **Rust**; faster and smaller than OpenSSL; **1,250** stars on GitHub since 04/2018; part of Open AI System Security Alliance (OASES) and Baidu AIoT Security Solution; official TLS backend of cURL and bRPC; built-in support for Chinese GM/T cryptography standards. This library is deployed in production on Android smart TVs (TCL, Hisense, etc.) with **10M MAU**.

- **MesaTEE** - <https://mesatee.org> - Core Member

A FaaS framework for universal secure computing; trusted execution powered by Intel SGX and ARM TrustZone; end-to-end encryption by **MesaLink**, plus remote attestation during TLS handshakes. I contributed the C SDK (implemented in Rust) and blackbox testing framework.

- **brpc-rs** - <https://github.com/mesalock-linux/brpc-rs> - Tech Lead

Rust bindings for Apache bRPC, a high-performance RPC framework for building reliable and high-performance services. 120 stars on GitHub in two weeks.

- **Anti-Fraud SDK for Android** - <https://anquan.baidu.com/pages/fangshua.html>

Root detection against MagiskHide; emulator detection with VirtualBox fingerprints and OpenGL HW acceleration; offline big data analysis (100GB snappy-compressed per day) with Spark; visualization with Elasticsearch and Kibana. This SDK is deployed in apps with 100M DAU including Baidu Search and Baidu Wallet.

**Senior Research Engineer, Samsung Research, Mountain View, CA** 01/2016 - 11/2016

- **SE Android and Samsung KNOX**

SE Android policy manipulation framework with 300% performance boost; Samsung Knox 3.0 container provisioning.

## EDUCATION

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**Arizona State University**, Tempe, AZ, USA

09/2010 - 12/2015

Ph.D. in Computer Science/Information Assurance

## TALKS

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- One Thousand Ways to Die in Rust FFI RustFest, Rome, 11/2018
- Cargo Meets Autotools and CMake RustCon Asia, Beijing, 04/2019
- A Memory Safe and OpenSSL-Compatible TLS Library in Rust Open Source Summit, 07/2019