



# Tao Ren

## CONTACT

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## BLOG

<https://touren.github.io>

## HIGHLIGHTS

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- A technology enthusiast with **19 years** architecting & building software solutions.
- Experience building high profile iOS and Android apps with over **250,000** active installs.
- Established Software & DevOps **architecture** at SWARM.
- **Co-Founder at** two companies, focusing on **Video Live Streaming**, in China.

## WORK EXPERIENCE

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### SENIOR SOFTWARE ENGINEER @ SWARM

October 2015 - now

**Tech:** iOS, Android, Swift, Java, Kotlin, Node.js, Typescript, Angular.js, WebRTC, C++.

Turned ideas from SWARM's clients into robust, scalable, high quality mobile, web, OTT or wearable digital products.

Launched "Elsewhere", a video meme app, which grew to over 250,000 active installs for **Conde Nast**.

Architected and built "Bumper" app for **Cargill**, the largest privately held company in the world, providing farmers live weather map, agriculture news, commodity prices and a live trading game.

Defined standards and architecture for all Android and Backend applications at SWARM. Created DevOps (CI / CD) processes. Mentored junior engineers in adopting SWARM processes.

Contributed to SWARM's internal products including Ludlow, Varick (Devie Award Winner), Cats TV.

Built a live video streaming talk show app on iOS, using WebRTC, ffmpeg, AWS & Kurento Server.

## **CTO @ GUANGDONG LINKDOM TECH., CHINA**

September 2007 – March 2014

**Tech:** Video Live Streaming, ucLinux, c, Java, Tomcat, MySQL.

Co founder at a Surveillance Camera, Smart Home and Video Live Streaming company.

Designed and developed an online instant-video-alarm & surveillance platform, for any kind of Smart Phone.

Designed and manufactured a customized IP camera (AE-365).

Built a live & on-demand video streaming & recording platform for HKSTV, a satellite TV Company registered in Hong Kong.

Built an online surveillance system for Watsons, a pure water manufacturer in Guangzhou.

## **SYSTEMS ANALYST @ GUANGZHOU TIANHE SIGMA-DATAS TECH., CHINA**

November 2001 – July 2007

**Tech:** C++, Rational Rose, MFC.

Analyzed business models to meet the user's needs and built use cases for delivery.

Designed user interface, software functions, and data models.

Build a realtime collaboration application, Co-up, including IM, file sharing, white board, helping people work efficiently and remotely.

## EDUCATION

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### QUEENS COLLEGE, THE CITY UNIVERSITY OF NEW YORK, UNITED STATES

Master of Arts: August 2014 - May 2016

Major: Computer Science

### SUN YAT-SEN UNIVERSITY, GUANGZHOU, CHINA

Bachelor of Science: September 1996 - July 2000

Major: Computer and Application

## OTHER

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2003, Found Guangzhou Software Process Improvement Network (NPO).

## SKILLS

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### Languages:

English, Cantonese, Mandarin

### Programming Languages:

JavaScript, TypeScript, Swift, Objective C, Kotlin, Java, C, C++

### Multi-Media Streaming:

H.263, H.264, MPEG4, 3GP, G726, RTSP, HLS, Flash FLV

### Other:

MySQL, Hibernate, Mongo DB, AWS, Azure.