

## **Robert Pan**

Linkedin Profile: [www.linkedin.com/in/pan1987](http://www.linkedin.com/in/pan1987)

## **Education**

Virginia Tech, Master of Science, Computer Science, 2013 - 2015

Sun Yat-Sen University, China, Bachelor of Engineering, Communication Engineering, 2004 - 2008

## **Technical Skills**

Distributed systems, C, C++, Java, C#, Javascript, Go, Node.js, Python, Linux, Unit Test

## **Experience**

### **Senior SDE at Meta, April 2022 - present**

MySQL server.

### **Senior SDE at Apple, May 2021 - April 2022**

Apple commerce services.

### **Senior SDE at Microsoft, July 2018 - May 2021**

Chat message backend services for Microsoft messaging applications (Skype, Microsoft Teams, etc).

Messaging API gateway service, read receipts, data migration, data retention, data encryption, etc.

### **SDE at Amazon AWS, July 2015 - July 2018 (3 years)**

AWS IoT message broker. AWS IoT messages routing systems.

AWS IoT management console.

### **Research Assistant at Virginia Tech, January 2014 - May 2015 (2 years)**

CloudBrowser, a scalable web application framework that preserves UI State in the server side.

### **Engineer at Tencent, November 2012 - July 2013 (9 months)**

WKD, a platform for enterprises to create customer service and advertising solutions using WeChat messages.

I built message scheduling service, message management portal, etc.

### **Engineer at Huawei, July 2010 - June 2012 (2 years)**

SOD, a high performance and low cost distributed key value store that scales to petabytes. It is the backbone of Huawei's Universal Distributed Storage (UDS cloud storage solution).

Research, prototyping and design; Developed message connection modules, failure detection module, cluster manager module, storage node module, client library, benchmarking tools, etc.

### **Engineer at OOCL, June 2008 - June 2010 (2 years)**

Worked on CargoSmart.com which provides shipping and logistic solutions for companies to automate and improve their shipment management process ( <http://www.cargosmart.com> ). I worked on data integration system and various other features.

## **Patents**

### **Method, device, and system for deleting data in distributed storage system**

United States Patent WO2013082787 A1 Issued December 8, 2011 Inventors: Xiaozhong Pan, Daohui Wang

### **Capacity expansion method and device and data access method and device**

United States Patent WO2013106993 A1 Issued January 17, 2012 Inventors: Xiaozhong Pan, Yu Yin

**Merged message storage data structure**

United States Patent US20200296065A1 Issued December 08, 2020 Inventors: Surendra Singh, Harsh, Xiaozhong Pan, Joshua Lan, Narasimhan GOVINDARAJAN, Jayanth Munikote, RAJEEVALOCHANAM, Prashanth Venkataraman

**Publications****Rich Cloud-Based Web Applications with CloudBrowser 2.0**

Proceedings of the 31st Annual ACM Symposium on Applied Computing (best paper award in Distributed Systems). April 2016. Xiaozhong Pan, Godmar Back