

# HU SHIJIE (STUART HU)

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## Education

- **Shanghai Jiao Tong University**—Shanghai  
*Master of Engineering in Information Security*
  - 2006.2 – 2008.12
- **Shanghai Jiao Tong University**—Shanghai  
*Bachelor of Science in Electrical Engineering*
  - 1999.9 – 2003.7

## Working Experience

- **Scopely**—Shanghai, Jingan  
*Senior Devops Engineer: 2021.7 – now*
  - Creating engineer backend infrastructure on China AWS, including Gitlab instance/runners/CICD pipelines.
  - Porting mobile game backend from AWS ECS to China **Ucloud k8s**, including storage/database/caches/message queues.
  - Lead the server code merge process.
  - Design and implement game content merge solution.
  - Creating central monitoring system (grafana/prometheus) to monitor k8s and vm nodes metrics (CPU/memory usage) and game metrics.
  - Daily operating and maintenance for the infrastructures, troubleshooting stability issues.
- **Baidu**—Shanghai, Zhangjiang  
*T6: 2020.12 – 2021.6*
  - Design and implement streaming computing platform.
- **Improbable**—Shanghai, 688 Plaza  
*Senior Infrastructure Architect: 2019.5 – 2020.11*
  - Porting SpatialOS from GKE to k8s cluster on China AWS. Switching GCR to ECR, GCE to EC2, Google IAM to AWS IAM. Using terraform to manage clusters.
  - Create CICD pipelines on BuildKite, automatically rollout on testing/staging/production environment.
  - Multiple knowledge sharing session inside China Infra team, like OAUTH introduction and Golang advanced topics.
  - Architect, design and implement China Billing system.
  - Member of API Guild, writing Improbable API Standard Proposals, push approval process.
- **Qiniu**—Shanghai, Zhangjiang  
*Senior Developer: 2018.4 – 2019.5*

- Implemented NAS gateway protocols including NFS/FTP.
- Implemented Version Management for Qiniu's object storage.
- Implemented S3 gateway for Qiniu's object storage.
- Submitted 4 patents during work, application number: 201810813487.3, 201811227621.8, 201910124563.4, 201910124576.1
- **EMC—Shanghai, KIC**  
*Principal Software Engineer: 2014.2 – 2018.4*
  - Mozy Infra Team DEV Leader, lead 2 teams simultaneously, main responsibility includes: architecture design, feature design review, code review, solution investigation, POC research, coaching and managing team members.
  - Quickly master new things like S3 protocol, Golang, Cloud Foundry, Cassandra and ElasticSearch, able to explain tech details to team members.
  - Recognized as CE(consistently exceeds) in 2015, 2016 year end KPI review.
- **Nomura Information Technology—Shanghai, Central Plaza**  
*Senior Developer: 2013.1 – 2014.1*
  - Develop and maintain the position management system of Nomura Investment Bank.
- **SAP Labs China—Shanghai, Zhangjiang**  
*Application Developer: 2007.9 – 2013.1*
  - Working in inventory module for SAP Business One.
- **Accton Technology Corp—Shanghai, Caohejing**  
*Senior Software Engineer: 2006.10 – 2007.9*
  - Develop, maintain and test network protocol software such as MPLS, LDP and DVMRP on hybrid switch. Use pure C on VxWorks.
- **Pengyue Jinghong Technology Corp—Shanghai, Zhangjiang**  
*Software Engineer: 2003.7 – 2006.10*
  - Develop, maintain and test network security software in Linux. The main develop language is C/C++, part of WEB configuration module implemented with Perl and Bash.

## Skill Set

- **Developer Expertise:**
  - Familiar with distributed object storage system, years of architecturing, designing, developing, deploying and on line bug investigation experience.
  - Fully understanding of software development life cycle.
  - Love problem solving.
  - Good at coaching team members with technical direction and guidance.
  - Strong sense of ownership and commitment, proactively take on new challenges with minimal supervision.
- **English:**

- CET Band 6.
- 10+ years of working in foreign companies like SAP and EMC, fluent communicating with colleagues overseas.

- **Operating System:**

- 10+ years on Linux, have a deep understanding of Linux architecture, fully understanding of Linux IPC, System Call and many other OS related stuffs such as timer, interrupt handling and process scheduling.
- 6 years on Windows with Visual Studio.

- **Database:**

- Excellent SQL/NOSQL programming.
- Familiar with Cassandra, ElasticSearch.

- **Programming Languages:**

- Expert in C/C++/Golang.
- Proficient in Perl/Python/Ruby/Bash.

## Other Achievements

- **Open Source Contribution:**

- Raise pull requests for GitHub projects like facebook/rocksdb, jetstack/cert-manager

- **Book Written:**

- Distributed Object Storage – Principal, Architect and Go Implement
- Distributed Cache – Principal, Architect and Go Implement

- **Book Translated:**

- Principles of Object-Oriented JavaScript
- Python and HDF5
- High Performance Python