

# Shuai Yuan

Mobile game developer in Xinyoudi Studio, Leqee Company

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## Education

- Master in Computer Science, National Tsing Hua University, Taiwan, 2014 (GPA: 4.23/4.3).
- Bachelor in Computer Science and Technology, Zhejiang University, China, 2012 (GPA: 3.84/4.0).

## Honor and Awards

- Honor:
  - outstanding employee in Leqee Company, 2014–2015.
  - outstanding student in Zhejiang University, 2008–2009, 2009–2010, 2010–2011.
- Scholarship:
  - Hong Hai/Foxconn scholarship, 2012–2013.
  - Second prize of outstanding student scholarship and scholarship for academic, 2010–2011.
  - Third prize of outstanding student scholarship and scholarship for academic, 2009–2010.
  - Second prize of outstanding student scholarship and scholarship for academic, 2008–2009.
- Awards:
  - Outstanding thesis paper among undergraduate students, 2012.
  - Second prize of Zhejiang University-Intel Embedded Online Contest, 2010.
  - Third prize of Zhejiang University ACM Programming Contest, 2009.
  - Second prize of Zhejiang Province Calculus Contest, 2009.

## Career Experiences

- Frontend mobile game developer in Xinyoudi Studio, Leqee Company, 2014/7–current.
  - Join a startup team and develop a 2D game (now available on **Google Play** and **App Store**).
  - Get my hands dirty on frontend development using **cocos2d-x** and **quick-cocos2d-x**.
  - My main contributions include:
    - \* Trace errors and crash, work on fixing or workarounding upstream bug, some of the patches are accepted by quick-cocos2d-x (**PR407**, **PR438**).
    - \* Customize UI widgets, some of them are available on Github: **GridView**, **irregular button**, and **quickx-extensions**.
    - \* Improve frontend UI workflow for better performance.
    - \* Multiple modules, e.g. **BattleReport**, **SummonHero**, **PowerupHero**, **WorldMapScene**, **SocialScene**, **HeroScene**.

## Project Experiences

- GPU-RSCode: a GPGPU approach to accelerating Reed-Solomon codes for fault-tolerance in RAID-like system, 2012/12–2014/5.
  - Written in CUDA C/C++. Source code and documents are available under GPLv3: <https://github.com/yszheda/GPU-RSCode>
  - We present an optimized GPU implementation of Reed-Solomon Codes, which can achieve a speedup of 14.71 over the current best CPU implementation.
- assertion-verification: implementation of the thesis “automated constraint verification for databases”, 2011/9–2012/3.
  - Written in Ocamllex and Ocaml yacc. Source code is available on Github: <https://github.com/yszheda/assertion-verification>

For more projects, please refer to my profile on:

- Github: <http://github.com/yszheda>
- Google code: <https://code.google.com/u/yszheda@gmail.com/>

## Research Experiences

- Lab member of Large-scale System Architecture (LSA) Lab, National Tsing Hua University, 2012–2014.
  - Work on “Accelerate Reed-Solomon Codes on GPUs” under the supervision of Prof. Jerry Chou.
- Research intern in LRI (Laboratoire de Recherche en Informatique) of the University of Paris XI, France, 2011,10–2012,4.
  - Work on “automated constraint verification for databases” under the guidance of Prof. Véronique Benzaken and Prof. Évelyne Contejean.
- Lab member of Microsoft Visual Perception Laboratory of Zhejiang University, 2010–2012.
  - Work on “scene audio recognition of images” under the supervision of Prof. Mingli Song.

## Skills

- Programming Language: C, C++, Lua, Matlab/Octave, Verilog HDL, Shell script (mainly bash), Ocaml.
- Framework/API: cocos2d-x, quick-cocos2d-x, CUDA, MPI, OpenGL (I have some experience on OpenGL ES, but currently I’m still a beginner), etc.
- Operating System: GNU/Linux (proudly using ArchLinux), Windows.
- Version Control Tools: git, svn (As a git fan, I use git-svn instead XD).
- IDE: Eclipse, Visual Studio, Xilinx ISE.
- Documentation:  $\text{\LaTeX}$