Kailun Wu

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EDUCATION

NEW YORK UNIVERSITY
M.S. Computer Science
May 2015 | New York City
- Courant Institute of Mathematical Sciences

SICHUAN UNIVERSITY
B.S. Computational Mathematics
Jun 2012 | Chengdu, China
- College of Mathematics
- Wu Yuzhang Honorary College
- GPA: 3.5 / 4.0

DESIGN

View all: kailun.me/blog/ui/

INSTAGRAM DESKTOP APP
Pure Instagram experience on the Mac.

THINKPLAY
The music performing software refined.

WEIGHT FOR IPHONE
The fastest way to log your weight.

TRENDING NOW FOR IPHONE
App UI for an internal hackathon at Yahoo.

SKILLS

Natural with:
Java, C++, Objective-C
Sketch 3, UI Design

Focus:
User, Quality Code

LINKS

Homepage: kailun.me
LinkedIn: @kailunwu

EXPERIENCE

THINKPLAY
Software Engineering Intern
Jun - Aug 2014 | New York City
- Developed features for the desktop music performing app in Java and C++.
- Designed UI for the Mac app using Sketch 3.
- Finalized the license activation function to push beta releases.

EUROMONITOR INTERNATIONAL (SHANGHAI)
Country Research Analyst
Jul 2012 - Jun 2013 | Chengdu, China
- Performed market research in fast-moving consumer goods for Unilever.
- Conducted trade interviews and store visits.
- Calculated data and wrote industry reports.

PROJECTS

RISKCALC FOR MAC | Objective-C, C++
Sep - Dec 2014
- Built a C++ server to quickly calculate VaR, LGD, histogram and hedge of a trading book of securities.
- Test-driven. Ran recursion tests in each iteration.
- Built a native Mac app for risk management. It communicates with the built-in server via TCP socket.
- Reworked the app to be pixel-perfect, translucent, and ready for Yosemite.

DISTRIBUTED DATABASE SIMULATION | Java
Nov 2014
- Built a distributed database model with multi-version concurrency control, deadlock avoidance, replication and failure recovery.
- Ensured serializability by two-phase locking. Avoid deadlock by the wait-die protocol. Used available-copies algorithm for fault tolerance and failure recovery.
- Wrote clean, easy-to-maintain code using proper design patterns. Conformed to strict code style. Test-driven.

DRIBBBLE COLOR PALETTE RECOMMEDATION | Java, LibSVM
May 2014
- Built a color palette recommendation tool. It learns your preference and recommends palettes by support vector machine.
- Scrapped half a million Dribbble artwork palette data using jsoup. Used the machine learning tool LibSVM to do the recommendation among the scrapped data.

OPERATING SYSTEM SIMULATION | C++
Feb - May 2014
- Implemented four seperate labs simulating essential parts of an OS: linker, process schedulers, memory management unit and IO scheduler.
- Multiple scheduling algorithms are compared in each lab. Test-driven.