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 SCIENCE
Jun 2012 | Chengdu, China
- College of Mathematics
- Wu Yuzhang Honorary College
- GPA: 3.5 / 4.0

SKILLS

JAVA, C++, OBJECTIVE-C, SWIFT, MYSQL, CSS, SHELL, LATEX

LINKS

Homepage: **kailun.me**
GitHub: **@kailun-wu**
LinkedIn: **@kailunwu**

DESIGN

Designed UI prototype using Sketch 3.
View all at **kailun.me/blog/ui/**
- Instagram for Mac
- Thinkplay for Mac
- Weight for iPhone
- Trending Now for iPhone

EXPERIENCE

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

EUROMONITOR (SHANGHAI)
COUNTRY RESEARCH ANALYST INTERN
Jul 2012 - Jun 2013 | Chengdu, China
- Performed market research in fast-moving consumer goods for Unilever, etc.
- Conducted trade interviews and store visits. Wrote industry reports.

PROJECTS

RISKCALC APP FOR MAC | OBJECTIVE-C, C++, SHELL
Sep - Dec 2014
- Built a pixel-perfect native Mac app for risk management. It communicates with the built-in backend via TCP socket.
- Created a C++ backend and shell script to quickly calculate VaR, LGD, histogram and hedge of a portfolio of securities. Ran regression tests.

WEIGHT APP FOR IPHONE | OBJECTIVE-C, HEALTHKIT, WATCHKIT
March 2015 - now
- The Weight app is the fastest way on the iPhone to log your daily weight.
- Designed the UI with Sketch 3. Implemented it with my girlfriend.
- Currently working on HealthKit synchronization and Apple Watch glances.

DISTRIBUTED DATABASE SIMULATION | JAVA, JUNIT
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 failure recovery.

OPERATING SYSTEM SIMULATION | C++, SHELL
Feb - May 2014
- Implemented four seperate labs simulating essential parts of an OS: linker, process schedulers, memory management unit and IO scheduler.
- Compared multiple scheduling algorithms. Test using shell script.

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 on palette.