Kailun Wu

+1(347)327-4146 | kailun@nyu.edu | kailun.me

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
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++, shell
Sep - Dec 2014
- Created a C++ backend and shell script to quickly calculate VaR, LGD, histogram and hedge of a portfolio of securities.
- Test-driven. Ran recursion tests in each iteration to ensure accuracy.
- Built a pixel-perfect native Mac app for risk management. It communicates with the built-in server via TCP socket.

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 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 on palette.

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.