

# Chunnan YAO

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## OBJECTIVE

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Looking for an internship opportunity as a big data/back-end software developer

## EDUCATION

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**University of California, Los Angeles** *September 2015 to present*  
M.S. in Computer Science *March 2017 (expected)*  
On-going Courses: Software Engineering, Database System, Machine Learning Algorithms

**Shanghai Jiao Tong University (SJTU), China** *September 2011 to July 2015*  
B.S. in Information Engineering *July 2015*  
Relevant Courses: Database, Data Structure and algorithm, Digital Image Processing, Data Mining  
Undergraduate Thesis (top 10%): Big Data Analysis Toolkit For Medical & Financial Cases Based on Apache Spark

## PROFICIENCIES

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**Computer Skills:** C++, Scala, Python, JAVA, SQL, Shell, MATLAB, HTML, PHP, L<sup>A</sup>T<sub>E</sub>X  
**Languages:** Mandarin (native), English (TOEFL ibt:114)

## WORK EXPERIENCE

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**Big Data Software Intern [Scala, Java]** *January 2015 to July 2015*  
*Intel Corporation, Shanghai*

- Optimized a performance benchmark package of Spark for Intel's Xeon processor.
- Developed & tuned performance of large scale preprocessing & statistical test & clustering algorithms toolkit on Spark
- Use Apache Zeppelin to visualize data generated by Spark
- Assisted common Spark/Hadoop cluster configuration & maintenance

## SELECTED PROJECTS

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**Implementation of B+ Tree Index for IMDb Database [C++, PHP]** *September 2015 to November 2015*  
*Database Systems (CS 143) class of UCLA*

- Created dynamic web interface using PHP for users to interact with MySQL database
- Built a highly-balanced B+ Tree indexing system for a MySQL-like data base and optimized its disk I/O

**Annotate: A Social Browser Extension [Python]** *September 2015 to November 2015*  
*Software Engineering (CS 130) class of UCLA*

- Annotate enables users to comment, discuss, link & rate content on every web page online
- Provided back-end support on account management, comment edit & deletion & sort using Google App Engine, webapp2 and NDB technologies.

**Undergraduate Research Assistant on Big Data & image processing[Scala, Python, Matlab]** *July 2014 to July 2015*  
*Institute of Wireless Communication Technologies, SJTU*

- Analyzed Spark MLlib source code and used data processed by Spark to assist analysis of online social networks.
- Implemented automatic image colorization via feature matching using luminance, deviation, Garbor filter, salient map, and other features to obtain satisfactory results proven by user study

**First Innovation Competition on Micro-UAV Related Technologies [Python, C++]** *Spring 2014*  
*Shanghai Key Laboratory of Navigation and Location Based Services*

- Exploited OpenCV, ROS to program ARDrone 2.0, a 4-rotor helicopter, to self-navigate by following a radio-controlled car or traces on the ground
- Integrated a voice recognition module (CMU Sphinx) into an android program to achieve voice control of the ARdrone

## AWARDS & HONORS

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**Innovation Competition on Micro-UAV Related Technologies, SJTU, prize winner** *Spring 2014*

- One of the only two undergraduate teams among all eight prize winners

**Academic Excellence Scholarship, SJTU** *2012, 2013, 2014*

- For achieving a top 20% academic standing in all years of undergraduate study

**"Three Good Student Award", SJTU** *2012, 2013*

- Honorary title awarded to the top 5% students who demonstrated excellent comprehensive quality

**National Undergraduate Electronic Design Contest, the 2<sup>nd</sup> prize of Shanghai region** *Summer 2013*