

# YIWEN SONG

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## EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY  
B.A. Computer Science, *College of Letters and Science*

JUNE 2016  
GPA (Computer Science): 3.75

### COURSEWORK:

- Operating Systems
- Probability
- Advanced Probability
- Artificial Intelligence
- Machine Structures
- Data Structures
- Algorithms
- Advanced Algorithms

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## WORK EXPERIENCE

OLD MISSION CAPITAL | Chicago, IL

June 2015 - Aug 2015

### Trading Intern

- Used NumPy, Pandas, and other Python tools to aid with visualization and understanding of big data.
- Created efficient parallel algorithms for faster, automated, and more effective data analytics techniques.
- Performed statistical analysis on market data to help find arbitrage opportunities and exploit inefficiencies.
- Implemented tools for traders to simulate and understand various trading strategies in development.

FUNDASTIC | Palo Alto, CA

May 2014 - Aug 2014

### Writer

- Researched and reviewed over 50 small business microloans from various lenders across the country.
- Worked closely with editors to ensure consistency in style and compliancy with guidelines in writing.

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## PROJECTS

### SPORKLIST

SporkList is a web-app aimed towards the indecisive eater. Just as you can make playlists for music, SporkList is a playlist for food, shuffling up your restaurant library for you when you feel hungry and indecisive. SporkList was made using AngularJS and Parse.

### IMGCOMPRESS

ImgCompress is a hackathon project aimed at becoming the future of compression. The algorithm works by uploading binaries to Imgur as PNGs and storing the 7 character Imgur URL. With a compression ratio of over 700 000, this is likely the single best compression algorithm in the world: all in under 200 lines of Python.

### TEXAS HOLD'EM AI

I tried to write a poker bot that would play game-theory optimally (GTO). This was a great idea until I realized that poker is a negative sum game and playing GTO will lose money in the long run. Nevertheless, I made a poker game in which you can play against an (albeit pretty awful) AI. Regrettably, this project was written in Java.

### SLIDING PUZZLE

The sliding puzzle is a classic kids' game which is really just a way to make people angry and frustrated. Having dealt with this frustration for too long, we decided to use Spark and Amazon Web Services and use map-reduce to solve these ungodly creations once and for all.

### TOURNUP!

TournUp! is an Android app that helps organize tournaments. It is a self-contained system for automating tournament creation, signups, pairings, and even prizes. Ever wanted to host your very own high stakes rock-paper-scissors tournament? Now you can, with TournUp!

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## INTERESTS, SKILLS & INTANGIBLES

Hobbies: Hearthstone, Poker, Rocket League, Investing, Reading the Manual

Languages: Python, Pseudocode, C (Reluctantly), Mandarin

Skills: MS Excel Fiend, Vim Connoisseur, Nash Equilibrium Hobbyist, "sudo rm -rf /" Frequent User

Intangibles: Enjoys friendly competition, makes bad puns