

Rick Huang

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

CANDIDATE FOR B.S. IN COMPUTER SCIENCE AND MATHEMATICS

Expected Jun 2018 | Cambridge, MA | Cumulative GPA: 5.0

Relevant Coursework: 18.100 Real Analysis • 18.701 Abstract Algebra • 18.600 Probability and Random Variables
6.005 Software Construction • 6.004 Computation Structures • 6.046 Algorithms II (Design and Analysis)

EXPERIENCE

BLOOMBERG L.P. | SOFTWARE ENGINEERING INTERN

May 2016 – Aug 2016 | New York, NY

- Designed a C++ system with custom graph data structures to match and track historical buy and sell trades
- Built C++ backend calculation system for evaluating custom profit and loss formulas given prematched trades
- Constructed web user interface for custom profit and loss formula input for consummation by backend system

CORTINA ACCESS | SOFTWARE ENGINEERING INTERN

Jan 2016 | Mountain View, CA

- Tested open source improvements to deep packet inspection and machine learning protocols for packet identification
- Performed statistical analysis to identify feasible solutions for specifically improving peer-to-peer packet routing

STANFORD SCHOOL OF MEDICINE | RESEARCH INTERN

Jun 2014 – Aug 2014 | Palo Alto, CA

- Designed a predictor using support vector machines in R to match drugs and potential adverse events from clinical notes
- Navigated MySQL word frequency database to generate statistical relationships between diabetes and atherosclerosis

PROJECTS

OMAHA POKERBOT

Jan 2016

- Produced an automated Pot-Limit Omaha poker bot in Python for the 2016 MIT Pokerbots tournament (6.176)
- Used Monte Carlo simulations for equity calculation and regression models for training actions based on opponent behavior
- Received first place in daily casino tournament, seventh place overall, and most creative strategy award from KCG Holdings

MESSENGERPLUS

Sept 2015

- Built a Python script that analyzes distribution of Facebook messages sent to recommend “reconnection” with friends
- Used Plotly API to create graphical analysis of Facebook message distribution to allow custom metrics for recommendations

LEADERSHIP

ZETA BETA TAU | SOCIAL AND OUTREACH CHAIR

Jan 2016 – | Brookline, MA

- Responsible for managing social activities and funds for activities for the brotherhood
- Responsible for maintaining relationships between the brotherhood and the general community

HARVARD-MIT MATH TOURNAMENT | GUTS ROUND DIRECTOR

Sept 2015 – | Cambridge, MA

- Managed organizational logistics for a team-based test in a contest of over 800 high-school students

PLEASANTON MATH CIRCLE | DIRECTOR AND WEB DEVELOPER

Oct 2011 – May 2015 | Pleasanton, CA

- Co-founded a local math circle geared towards elementary and middle school students
- Built lecture materials with higher-level topics such as graph theory to introduce proof-writing with problem solving
- Created website on Github Pages as a communication tool and to host past lecture material

AWARDS

2016	Top 10%, Bloomberg Intern Codecon
2016	1st Place, MIT Pokerbots Casino Tournament
2014	USA Math Olympiad Qualifier
2014	USA Physics Olympiad Semifinalist
2012	USA Computing Olympiad, Gold Division

SKILLS

Proficient

Java • C++ • Python • Javascript • HTML • CSS • \LaTeX • Git

Basic

Linux • R • Matlab • Mathematica • MySQL • Adobe Photoshop