Rick Huang

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Candidate for B.S. in Computer Science and Mathematics
Expected Jun 2018 (Class of 2019) | Cambridge, MA | Cumulative GPA: 4.9
Relevant Coursework: 6.858 Computer Systems Security • 6.033 Computer Systems Engineering • 6.867 Machine Learning
6.828 Operating Systems Engineering • 6.046 Design and Analysis of Algorithms • 18.100 Introduction to Analysis
18.701 Abstract Algebra • 18.600 Probability and Random Variables • 18.200 Principles of Discrete Mathematics

EXPERIENCE

TWO SIGMA INVESTMENTS, LLC | Software Engineering Intern
Jun 2017 - | New York, NY
- Expected to start as a software engineering intern working in low-level systems for ten weeks starting June 2017

FIVE RINGS CAPITAL, LLC | Trader Intern
Jan 2017 | New York, NY
- Investigated trends, generated analytics, and developed potential trading strategies for certain financial instruments

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
- Constructed web user interface for client-based custom profit and loss formula input for consumption by backend system
- Built C++ backend calculation system for evaluating client-based custom profit and loss formulas given prematched trades

CORTINA ACCESS | Software Engineering Intern
Jan 2016 | Santa Clara, CA
- Tested open source improvements to deep packet inspection and machine learning protocols for P2P packet identification

PROJECTS

PROBABILISTIC IMAGE SUPER-RESOLUTION
Dec 2016 | Massachusetts Institute of Technology
- Used Bayesian posterior modeling of Gaussian processes on multiple low-resolution patches of pixels for extrapolation
- Trained model in Python with Stan, a language performing Bayesian inference with Markov chain Monte Carlo sampling

POT-LIMIT OMAHA HOLD'EM POKERBOT
Jan 2016 | Massachusetts Institute of Technology
- Produced an automated Pot-Limit Omaha poker bot in Python for 6.176, the 2016 MIT Pokerbots tournament
- Used Monte Carlo simulations for equity calculation and regression models for training actions based opponent behavior
- Received first place in daily casino tournament, seventh place overall, and most creative strategy award from KCG Holdings

AUTOMATED DRUG AND ADVERSE EVENT PREDICTOR
Aug 2014 | Stanford School of Medicine
- Designed a predictor using support vector machines in R to match drugs and potential adverse events from clinical notes

MISCELLANEOUS

MIT CSAIL | 6.046 Grader
Sept 2016 - Dec 2016 | Cambridge, MA
- Responsible for grading weekly problem sets for the second algorithms course, involving topics such as complexity theory

MIT POKER CLUB | President
Sep 2016 - | Cambridge, MA
- Responsible for managing tournaments, organizing company talks, and general body meetings for the MIT Poker Club

ZETA BETA TAU | Executive Committee
Aug 2016 - | Brookline, MA
- Responsible for managing activities, general community relationships, and legislative administration for the brotherhood

AWARDS

Year	Award
2016	4th Place, MIT Fall Series of Poker Main Event
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
Python • C++ • Java • Javascript • HTML • CSS • LaTeX • Git
Basic
Linux • C • NumPY • SciPy • Networking • TCP/IP • Stan
Bash • R • Matlab • MySQL • Adobe Photoshop