

KRISHNAN CHANDRA

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EDUCATION

University of Illinois at Urbana-Champaign

May 2014

Bachelor's of Science in Computer Science

- Graduated with Honors

Bachelor's of Science in Mathematics – Concentration in Operations Research

- Graduated With Distinction

Tau Beta Pi Engineering Honor Society – Membership granted to top 10% of engineering students

PROFESSIONAL AND ACADEMIC EXPERIENCE

LinkedIn

Mountain View, California

Software Engineer

August 2014

LinkedIn

Mountain View, California

Software Engineering Intern

May 2013 – August 2013

- Reduced data footprint of LinkedIn Contacts by 40%, saving additional storage cost and improving application scalability
- Redesigned and implemented new graph storage models using Java in order to facilitate reuse of internal storage infrastructure
- Created specifications and prototyped new schemas to migrate from legacy MySQL database to proprietary NoSQL solution
- Wrote scripts in Apache Pig utilizing Hadoop to transfer user data from multiple MySQL instances into an internal data store

Bloomberg

New York, New York

Financial Software Developer Intern

June 2012 – August 2012

- Created C/C++ application allowing storage and replay of data from assorted exchanges for algorithm development and testing
- Improved existing logic in trade matching algorithms to improve utilization of available liquidity in dark pools around the world
- Modified several internal C/C++ applications for the Global Tradebook team to prevent errors and irregularities in order matching

ByAllAccounts

Woburn, Massachusetts

Software Engineering Intern

May 2011 – August 2011

- Wrote Java module to track product failure statistics, providing valuable data to better diagnose crawling system's bugs and errors
- Developed visualization of usage statistics using Javascript and HTML/CSS, enabling marketing teams to identify top customers

LEADERSHIP & ACTIVITIES

University of Illinois Computer Science Department

Urbana, Illinois

Undergraduate Teaching Assistant

August 2012 – May 2014

- Design and test programming assignments in C/C++, MIPS and Verilog to improve students' knowledge of computer architecture
- Extend interactive web-based homework system using Python, Javascript and HTML/CSS to provide students continuous feedback

Research Assistant

December 2011 – May 2012

- Maintained and wrote Python code to scrape and store textual and graphical data from Twitter feeds relevant to major world events
- Assisted in developing statistical learning algorithms to rank tweets and images according to relevance to specific occurrences

Margolis Market Information Lab

Champaign, Illinois

Senior Fellow

August 2012 – May 2014

- Developed tutorials and coursework using Bloomberg, Matlab, R, and Crystal Ball in order to complement finance curriculum
- Mentored 3 Incoming Fellows on various software tools; aided in developing a training program for new employees of the lab
- Created database system using Django to simplify record-keeping and allow detailed analysis of aggregate workshop statistics

University of Chicago Midwest Trading Competition

Chicago, Illinois

Participant, Case Winner

February 2013 – June 2013

- Implemented a pairs trading arbitrage strategy between gold and silver futures and ETFs using Java and OptionsCity Freeway
- Won case competition in May 2013; presented algorithm at OptionsCity conference in Chicago on algorithmic trading in June 2013

Financial Engineering Club

Champaign, Illinois

Corporate Director

August 2013 – May 2014

- Facilitated corporate networking events between club members and recruiters from several Chicago-based algorithmic trading firms
- Researched algorithmic trading competitions across the United States and Canada for future participation by UIUC students

SKILLS AND PROJECTS

LinkedIn Profile: <https://linkedin.com/in/krishnanchandra>

Personal Projects: <https://github.com/krishnan-chandra>

Programming Languages, Frameworks, and Databases:

Java, C++, Python, Django, MATLAB, Javascript, jQuery, HTML/CSS, MySQL, R, Node.js, Flask