KRISHNAN CHANDRA

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EDUCATION

University of Illinois at Urbana-Champaign
Bachelors of Science in Computer Science **Graduated with Honors**
Bachelors 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 EXPERIENCE

LinkedIn Mountain View, California
Software Engineer *August 2014 – Present*
- Rebuild LinkedIn Connected stack with new service-oriented model using Java and Scala for easier scalability and deployments
- Create scripts using Python to migrate data from production MySQL instances to Espresso data store and support Scala stack
- Lowered latency of data migration by 40% by implementing fixes on RPC protocol level to allow larger requests to database
- Manage weekly code releases and service deployments in multiple staging and production environments on a rotating basis

LinkedIn Mountain View, California
Software Engineering Intern *May 2013 – August 2013*
- Reduced data footprint of LinkedIn contacts data 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 LinkedIn Espresso data store

Bloomberg New York, New York
Financial Software Developer Intern *June 2012 – August 2012*
- Developed 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
- Helped implement 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

Programming Languages, Frameworks, and Databases:
Java, C++, Python, Django, MATLAB, Javascript, jQuery, HTML/CSS, MySQL, R, Node.js, Flask, Scala