

KRISHNAN CHANDRA

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelors of Science in Computer Science

Bachelors of Science in Mathematics – Concentration in Operations Research

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

Graduated with Honors

Graduated with Distinction

PROFESSIONAL EXPERIENCE

Reddit, Inc.

Senior Software Engineer

San Francisco, California

May 2016 – Present

- Developed Midas - a data enrichment system using Kafka, Thrift, Java, Scala and Python to add external data to tracking events
- Created deployment system using Docker, Mesos and Marathon on AWS EC2 to ensure easy scalability for pipeline components
- Built Abacus - a system to filter out spam and count unique content views on posts using Scala, Kafka, Redis and Cassandra
- Automated manual QA process for new tracking events coming through the pipeline using JSON Schema and Scala rules engine

Optimizely

Software Engineer II

San Francisco, California

May 2015 – May 2016

- Built data pipeline using Apache Kafka and Flume to load 5 billion events per day into Hadoop, HBase, and Amazon S3
- Constructed data export feature using Apache Pig, MapReduce, Python and Oozie to generate daily experiment reports for customers
- Unified event logging infrastructure across A/B testing and personalization products, saving over \$100,000 in hosting costs annually
- Managed monitoring and provisioning infrastructure for the entire backend using Chef, Nagios, OpenTSDB, and Statuswolf
- Created system to move event archives and backups into Amazon S3-IA from S3, saving over \$50,000 in annual hosting cost

LinkedIn

Software Engineer

Mountain View, California

August 2014 – May 2015

- Rebuilt LinkedIn Connected stack using Java and Scala to expand user base from 5 million to over 300 million members
- Wrote scripts in Python to migrate data from production MySQL instances to Espresso data store and support new Scala-based stack
- Lowered latency of data migration by 40% by implementing fixes on RPC protocol level to allow larger requests to database
- Managed weekly code releases and service deployments in multiple staging and production environments on a rotating basis

LinkedIn

Software Engineering Intern

Mountain View, California

May 2013 – August 2013

- Reduced data footprint of LinkedIn Contacts app by 40%, saving storage cost and improving application scalability
- Designed and implemented graph-based storage models using Java to facilitate reuse of internal storage infrastructure
- Created specifications and prototyped new schemas to migrate from legacy MySQL database to Espresso data store

Bloomberg

Financial Software Developer Intern

New York, New York

June 2012 – August 2012

- Developed C/C++ application allowing replay of data from international exchanges for algorithm development and testing
- Improved existing logic in trade matching algorithms to aid utilization of 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

Software Engineering Intern

Woburn, Massachusetts

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

Undergraduate Teaching Assistant

Urbana, Illinois

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

SKILLS

Programming Languages, Frameworks, and Databases:

Scala, Java, Python, Puppet, C/C++, Ruby, MySQL, Chef, Django, Flask, Javascript, R, Node.js