

Animesh Tripathi

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EDUCATION	University of Illinois , College of Engineering Bachelor of Science (B.S.) in Computer Science Coursework, Honors and Standardized Testing: <ul style="list-style-type: none">• Distributed Systems, Numerical Methods, Algorithms, Data Structures (Honors), Discrete Math, Computer Architecture, System Programming (Honors), Artificial Intelligence, Linear Algebra, Multivariable Calculus, Probability, Programming Studio, Computer Security, Data Mining, Databases, UI Design, Virtual Reality• James Scholar • Dean's List • SAT I: 2320/2400	Urbana-Champaign, IL Aug 2014 - May 2018
EXPERIENCE	Facebook Software Engineering Intern Pinterest Software Engineering Intern <ul style="list-style-type: none">• Interning on the Serving Systems team within Core Infrastructure. Jump Trading Software Engineering Intern (Core Development) <ul style="list-style-type: none">• Developed a new price feed, primarily using C++. Research and Development Engineering Intern Software Engineering Intern (R&D)	Menlo Park, CA Sep 2017 – Dec 2017 (expected) San Francisco, CA May 2017 – Aug 2017 Chicago, IL & Champaign, IL Spring 2017 (part-time) Summer 2016 (full-time) Summer 2015 (full-time), Fall '15, Spring '16 (part-time)
	<ul style="list-style-type: none">• Developed a C/C++ API for cache-locked memory allocation for the company's core trading platform.• Worked on analyzing and improving OpenSM load balancing over InfiniBand fabrics.• Developed tool to analyze and report UDP Multicast topology over InfiniBand fabrics using RDMA.• Developed parallelized low-latency analytical framework in Cython to simulate actual and random Multicast feed arrangements, parse market data and calculate microsecond-level EMAs over bandwidth utilization in order to determine burst correlations. Also wrote scripts to visualize the resultant time-series data.• Wrote a simulated annealing optimization algorithm and multiple cost functions for packet queueing.• Planned and developed trading architecture features for Bitcoin trading team.	
	National Center for Supercomputing Applications Software Engineering Intern <ul style="list-style-type: none">• Full-stack development and deployment for several projects. Rithmio Software Engineering Intern <ul style="list-style-type: none">• Full-stack development for Rithmio's gesture recognition technology and API.• Refactored front-end features and integrated and deployed platform to Amazon AWS. The Fedora Project Student Contributor	Urbana, IL Feb 2015 – May 2015 Champaign, IL Sep 2014 – Dec 2014 Remote Nov 2012 – Jan 2013
RESEARCH	Optimizing Digital Content for Color-Blind Users <ul style="list-style-type: none">• Implemented and tested a new color-correction algorithm for color-blind computer users.• Developed image processing simulations and metrics to compare color-correction algorithms.	Mar 2013 – May 2014
SELECTED ACHIEVEMENTS	<ul style="list-style-type: none">• Won the Microsoft Prize at TreeHacks, Stanford University (2015)• Won the Capital One Programming Challenge and trip to the Summit for Software Engineers.• Selected for the ACM ICPC 2015 Mid-Central Regional competition• Won the Google CS Connect Award and scholarship at Intel ISEF 2014• Won the 4th Grand Award in Computer Science at Intel ISEF 2014• Selected as a Regional Finalist (top 30 worldwide) for the Google Science Fair• Finalist, Indian National Olympiad in Informatics (qualification round for IOI Training Camp)• Grand Prize Finalist, Google Code-In 2013 (The Fedora Project)• International Scholar, The Global Education and Leadership Foundation (tGELF)• Received the Gold Medal and National Award at the Intel IRIS National Fair (2013)	
LANGUAGES	C/C++, Python, PHP, Verilog, MIPS, MATLAB, HTML/CSS, JavaScript, Ruby, SQL, \LaTeX	
FRAMEWORKS	NumPy, Cython, d3, jQuery, Matplotlib, AWS, LAMP, MEAN, Redis, WebSockets	