

# Matt Nicolls

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## Education

<b>University of Illinois at Urbana-Champaign</b>	May 2014
• Bachelor of Science in Electrical Engineering, Minor in Computer Science	3.4/4.0 GPA

## Course Work

Data Structures + Honors	Distributed Systems	Computer Systems Engineering	Theory of Computation
Communication Networks	Artificial Intelligence	Digital Signal Processing	Analog Signal Processing
Computer Graphics	Computer Engineering 1	Probability with Engineering	Matrix Theory
Digital Systems Lab	Digital Communications	Electronic Circuits	Semiconductor Devices

## Work History

<b>Gridspace, Software Engineer, Python, Django, Redis, React, Objective C</b>	Los Angeles, CA
• Worked on small team and iterated on customer feedback	October 2014-Present
• Designed and implemented full stack solutions in a variety of languages	
<b>Aspen - Contractor for Verizon, Software Engineer, C# and Java</b>	Chicago, IL
• Proposed and implemented a Storm prototype	June 2014-October 2014
• Added features to existing C# codebase in .NET framework and SQL	
<b>FarmHand, Lead Developer, Python and Android/Java</b>	Champaign, IL
• Student startup with crop science graduate student	September 2013-October 2014
• Built leaf classification system, prototype in python and product on android	
• Chosen for Illinois Corporate Startup Challenge and presented to John Deere	
<b>Interactive Intelligence, Development Intern, Edge Group, C++</b>	Indianapolis, IN
• Optimized existing SIP library for loopback case	May 2013-August 2013
• Implemented library functions for parsing history headers in SIP messages	
• Passed code reviews and documented work on company wiki	

## Class Projects

<b>Built distributed Key-Value store, C++, Partner project</b>	Fall 2013
• Design featured: passive replication, failure detection, hash point routing, replication factor of three, three consistency levels	
• Used: Google Protocol Buffers, Google Test, Cmake, Boost ASIO	
• Built an database of movie titles that could be searched with a keyword	
<b>Undergraduate Research, Java</b>	Spring 2013
• Built a robotics path planning simulation for applications in a warehouse setting	
• Basis for algorithm is a modified A* search	
<b>Built Linux/UNIX based operating system, C and x86 assembly, Team of four</b>	Fall 2012
• OS implemented: paging, read-only file system, round robin scheduling, three terminals/ processes, system calls, user program execution, RTC, PIT, and keyboard interrupt handlers	

## Awards, Activities

<b>Eagle Scout - Ultimate Frisbee Player - Krav Maga Student</b>	
<b>Startup Weekend, Team Placed 6<sup>th</sup></b>	November 16-18, 2012
• Developed a business plan and presented a live demo to judges	
<b>Formula Hybrid, Accumulator Subsystem Leader, Team Treasurer</b>	August 2010-May 2012
• Designed and implemented: high voltage layout, designed accumulator packaging, and BMS	