

Rohan Mathur

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Education	University of Illinois at Urbana-Champaign Majoring in Computer Engineering	Graduation: May 2017
Experience	Rithmio Champaign, IL Building out Android SDK prototype app for gesture recognition in the context of aiding physical therapy. Work involves integrating and fine tuning current machine learning models and backend data store. App is to be completed by December 2015 and to enter clinical trials by Q1 2016.	Software Engineering Intern Fall 2015
	University of Illinois Math Department Champaign, IL Working under Professor Richard Sowers to optimize Android devices at the OS level to function as better long-term data collection and high performance calculation devices.	Undergraduate Researcher Fall 2015
	Offerpop New York City, NY Enhanced several features of their Django stack working heavily with the Django ORM and data analysis. Re-architected the new Flask microservice backend mainly dealing with building REST APIs, building custom authentication libraries via HTTP headers, and much more.	Software Engineering Intern Summer 2015
	Somerset County Library System Bridgewater, NJ Developed a new library website on a stack using Drupal. Wrote custom plugins that interface with an eBook management backend, and wrapper for the existing book database.	Website Developer 2008 – 2013
Projects	AOKP Custom Android Open Source OS - Over 11 million installs Lead developer of custom Android ROM with greater features, updates, and stability. Work involves heavy device hardware enablement, Linux kernel optimization and hacking, and high performance Android frameworks and application development.	2010 – Present http://aokp.co
	LG Optimus G Conversion - Featured on Engadget, The Verge, etc Tool that re-writes the LG Optimus G phone's partition structure with customized hex-edited Nexus 4 partitions, enabling the LG Optimus G to use the Nexus 4's system software.	Spring 2014
	Pocket CUMTD - Over 1,000 downloads One of the official Android applications for the Champaign-Urbana bus system. Features favorites, notifications of incoming buses, iBeacon integration, and an expansive map view.	Spring 2015
	QuickTron - 2nd Place at hackRU 2013 Fall Android app that utilizes computer vision algorithms to do a real-time scanning and grading of ScanTron multiple choice test answer sheets, and then emails score reports to students.	Fall 2013
	whiteboard.js - Top 30 Project at PennApps Winter 2015 Generates a dynamic multi-page website from drawings of a website layout on a whiteboard. Android app captures images of website and uploads it to a server, where computer vision algorithms build and deploy the website.	Winter 2015
Activities	IEEE@UIUC Student Chapter Organize and lead all technical events, ranging from workshops to hardware hackathons.	Technical Events Director
	ACM@UIUC SIGMobile Organize and lead weekly Android app tutorials and competitions for UIUC's ACM chapter.	Chair
	HackIllinois 2016 Team Director of hardware projects. Leading development of a custom PCB and hardware tutorials.	Hardware Director
	Reflections—Projections 2015 Technology Conference Built the Android app for the event. Invited guest speakers and assisted with the event logistics.	Staff