Rohan Mathur

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Education

University of Illinois at Urbana-Champaign   Graduation: May 2017
Majoring in Computer Engineering

Experience

Rithmio   Software Engineering Intern
Champaign, IL   Fall 2015
Building out Android SDK prototype app for gesture recognition in various usecases. Integrate SDK built using advanced machine learning models to accurately track user's movement.

University of Illinois Math Department   Undergraduate Researcher
Champaign, IL   Fall 2015
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.

Offerpop   Software Engineering Intern
New York City, NY   Summer 2015
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.

Somerset County Library System   Website Developer
Bridgewater, NJ   2008 – 2013
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.

Projects

AOKP Custom Android Open Source OS - Over 11 million installs   2010 – Present
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.   http://aokp.co

LG Optmus G Conversion - Featured on Engadget, The Verge, etc   Spring 2014
Tool that re-writes the LG Optmus 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.

Pocket CUMTD   Spring 2015
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.

QuickTron - 2nd Place at hackRU 2013 Fall   Fall 2013
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.

whiteboard.js - Top 30 Project at PennApps Winter 2015   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.

Activities

IEEE@UIUC Student Chapter   Technical Events Director
Organize and lead all technical events, ranging from workshops to hardware hackathons.

ACM@UIUC SIGMobile   Chair
Organize and lead weekly Android app tutorials and competitions for UIUC's ACM chapter.

HackIllinois 2016 Team   Hardware Director
Director of hardware projects. Leading development of a custom PCB and hardware tutorials.

Reflections—Projections 2015 Technology Conference   Staff
Built the Android app for the event. Invited guest speakers and assisted with the event logistics.