Rohan Mathur

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Education

University of Illinois at Urbana-Champaign   2014 - 2018 (expected)
Majoring in Computer Engineering, minoring in Business Administration and Mathematics
Relevant Classes: ECE 110, 120, 220 — CS 173, 225 — MATH 241 — PHYS 212

Bridgewater-Raritan High School   2009 - 2014

Work Experience

AOKP Custom Android Operating System   Lead Developer
Seattle, Washington   2010 – Present
Modifed Android open source platform code to have new features, customization options, and greater stability overall. Project has over 10 million recorded installs worldwide. http://aokp.co

Somerset County Library System   Website Developer
Bridgewater, NJ   2008 – 2013
Developed a new content management system, transitioned data from old website, and reworked eBook storage backend.   http://www.somerset.lib.nj.us

Projects

Oculus Thrift   Fall 2014
Made-from-scratch completely wireless Oculus Rift-esque VR suite, complete with goggles, power glove, and a Myo armband which all together function as a display and mouse for any computer anywhere. One of the Top 30 projects at the PennApps X 2014 Fall Hackathon.

DefNotes   Spring 2014
Android application that records lectures, identifies keywords within the lecture's content, looks up the definition of those keywords, puts both together into a cohesive study guide, and then emails it to the student. Winner of the Best Live App at the hackBCA 2014 Spring Hackathon.

StockFeel   Spring 2014
Web app that uses past and real-time social media and financial data to predict future stock movement. Winner of Best Bloomberg Hack at PennApps 2014 Spring Hackathon.

QuickTron   Fall 2013
Mobile ScanTron scanner, grader, and grade reporting application. Winner of 2nd place at the hackRU 2013 Fall Hackathon.

Qualifications

Programming Languages: C++, C, Java, PHP, MySQL
Libraries and Tools: Android SDK/NDK, Node.js, JQuery, 3D Printers

Activities

HackIllinois   Systems Team
Built the HackIllinois coding challenge web app that applicants could do to gain familiarity with various programming languages. Assisted with the developemnt of the Android application.

Reflections—Projections   Staff
Invited several guest speakers and assisted with the overall logistics of the event.

IEEE Student Club   Founder & President
Led club in projects including building an autonomous blimp for a local children's museum. Invited guest speakers from industry and academia to talk about their experiences.

Publications

New Jersey Governor's School Research Journal
"Exploring Methods to Develop Cross-Platform Mobile Apps"

IEEE Xplore
"Computer programming - A building block of STEM"
"Cybersecurity - An integral part of STEM"
"EPICS High: A Digital Literacy Project in India"
"EPICS High: STEM's impact on community service"