

# Michael Wright

9500 Kingsford Dr.  
Cary, NC 27518  
☎ (919) 656-4962  
✉ mdwright2@ncsu.edu

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## Computer Skills

Languages: Java, C, Go, Python, JavaScript

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## Experience

- January 2013 – Present **Android Frameworks Engineer**, *Google*, Mountain View, CA.
- Maintainer of Android input subsystem.
  - Spearheaded game controller standardization efforts for the Android platform and optimized the gamepad input path (63% less latency on average).
  - Was the lead platform engineer on the Nexus 9 keyboard and added input support for the Always on Display functionality of the Nexus 6.
  - Developed the MediaProjection APIs.
  - Rewrote the autobrightness algorithm in Android L.
  - Member of the Android API Council.
- Summer 2012 **Software Engineering Intern**, *Google*, Mountain View, CA.
- Rewrote Android Virtual Device (AVD) creation and management tools to focus on physical device specifications rather than the emulator's implementation details, allowing developers to create AVDs based on existing, real-world devices.
- Fall 2011 **Senior Design Team Lead**, *Johns Hopkins University Applied Physics Lab*.
- Developed a library for seamlessly interacting with Flickr, a project that allows for running trusted code modules on top of an extremely small trusted computing base.
  - Implemented modules that wrap Intel's Trusted Platform Module's sealing and unsealing functionality.
  - Developed modules that implement RSA and a corresponding arbitrary precision math library which do not depend on libc.
- Summer 2011 **Technical Solutions Engineering Intern**, *Google*, Mountain View, CA.
- Extracted ChimpChat, a Java library for interfacing with the Monkey tool, from MonkeyRunner.
  - Added view introspection functionality to Monkey, ChimpChat and MonkeyRunner.
  - Worked on an SFTP server backed by Google technologies and infrastructure, improving read performance by 4x and implementing proper access control.
- May 2010 – January 2011 **Research Professional**, *Dr. Jiang, NCSU*, Raleigh, NC.
- Developed a framework to interpose advertisement's interaction with webpages.

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## Education

- Fall 2008 – Winter 2012 **Computer Science & Mathematics, North Carolina State University, Raleigh, NC**, Overall GPA: 3.949.  
CSC & MA Majors GPA: 4.0

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## Extra

- Contributor to open source projects - see <https://github.com/mdwright2>
- Member of the USB HID WG, authored a new standard for game controller LEDs
- 5th overall, 1st in USA for the IEEEExtreme programming competition 6.0
- Winner of NCSU XCDC

