

# Pedro Hernández Rubio

Calle España, 8  
28521 Rivas-Vaciamadrid  
☎ (34) 652244781  
✉ [pedroherub@gmail.com](mailto:pedroherub@gmail.com)

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## Education

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

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## Computer Skills

Languages: Python, Java, Go, JavaScript, C

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## Experience

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.
- Implemented an Android application that generated device specifications for use with the new toolset.
- Worked on an internal, company-wide communication app for Android as a side-project with another intern. Its design and implementation received positive remarks from a number of people, including Matias Duarte, Director of Android UI/UX.

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.
- Gave presentations on papers and research proposals to the Systems Security group.

2008–2010 **Jr. Developer/IT Intern, Futures, Inc., Durham, NC.**

- Aided in the design, and provided the implementation and support of a large scale (10,000+ initial users), Xen-virtualized server environment housing a rich internet web application.
- Developed a custom continuous integration server that interfaced with our git repositories.

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## Extra

- Contributor to open source projects - see <https://github.com/mdwrih2>
- President of the NCSU Linux User Group
- Google Student Ambassador
- Winner of NCSU XCDC

