# Praveen Kumar Pendyala

Android developer | Linux enthusiast | Web hobbyist

## Info

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pkp.io
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## Contact

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## Skills

### Programming

Java, PHP, Kernel C, Python, JavaScript, Shell, Verilog

### Web

AngularJs, HTML5, CSS3, REST APIs, Bootstrap, MVCs

### Android

Retrofit, Volley, Picasso, Material Design, Play Services

### Tools

Git, SVN, Asterisk, Xilinx ISE, Jekyll, LaTeX, Moodle, Wordpress

### Platforms

Linux, Windows, Mac OSX, Beaglebone, Google App Engine

## Education

| | | |
|---|---|---|
| since 2014 | **Masters,** Distributed Software Systems | Technische Universität Darmstadt |
| 2010–2014 | **Bachelors,** Electrical Engineering | Indian Institute of Technology Bombay |
| 2008–2010 | **Higher Secondary** | Vijaya Ratna Junior College, Hyderabad |

## Experience

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|---|---|---|
| since 2014 | **Center for Advanced Security Research Darmstadt** *Working in Cloud, Android and Mobile security.* | Research Assistant |
| 05–08 2015 | **Google Summer of Code** *Linux drivers for remote access from Android.* | Supporting mentor |
| 05–08 2014 | **Google Summer of Code** *Developed kernel display driver for remote access to Linux from Android.* | Developer |
| 05–07 2013 | **Rice Univeristy** *Implemented a dual-core Physically Unclonable Function.* | Research Internship |

## Publications

| | | |
|---|---|---|
| 2014 | **PUFatt: Embedded Platform Attestation Based on Novel Processor-Based PUFs** *Kong, J., F. Koushanfar, P. K. Pendyala, A. - R. Sadeghi, and C. Wachsmann* | Best paper candidate, Design Automation Conference |

## Achievements

- A. Richard Newton Young Student Fellow Award, DAC 2014, San Francisco
- All India category Rank 1 among 470,000 students in IIT JEE 2010
- All India category Rank 1 in Indian Institute of Space Technology Admission Test, 2010

## Projects

| | | |
|---|---|---|
| since 2012 | **MDroid - Moodle for Android** *Creator and maintainer. 73,000+ downloads. Top app for Moodle.* | Android, Githooks, REST, Markdown |
| 2015 | **Coursestats.de** *Course statistics and reviews from student community at TU Darmstadt.* | PHP, AngularJs, GAE, Python, Material Design, MySQL |
| 2015 | **Omnishare** *Client side encryption of Cloud data with easy-to-use file sharing support.* | Android, Cryptography, Dropbox Core APIs |
| 2014 | **Android accessory driver** *Kernel driver to set any Android device into Accessory (ADK) mode.* | Linux Kernel, Android accessory |
| 2014 | **Programmable Delay Logic** *Implemented PDL on virtex 5 FPGA. Configurable precision of 10 picoseconds.* | Verilog, Xilinx ISE, Virtex 5 |
| 2013 | **Tum Tum Tracker, IIT Bombay** *Android application to track internal transportation vehicles at IIT Bombay.* | Android, Google Maps |