

# Praveen Kumar Pendyala

Android developer | Linux enthusiast | Web hobbyist

## Info

DOB: 26.10.1992  
<https://pkp.io>  
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## Contact

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## Skills

### Programming

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

### Web

AngularJS, HTML5,  
REST APIs, Bootstrap,  
MVCs, Bower

### Android

Retrofit, Volley,  
Picasso, Material  
Design, Play Services

### Tools

Git, SVN, MySQL,  
Asterisk, Xilinx ISE,  
Jekyll,  $\LaTeX$ , Moodle

### 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

## Experience

since 2014 **Center for Advanced Security Research Darmstadt** Research Assistant  
*Working in Cloud, Android and Mobile security.*

05–08 2015 **Google Summer of Code** Supporting mentor  
*Linux drivers for remote access from Android.*

05–08 2014 **Google Summer of Code** Developer  
*Developed kernel display driver for remote access to Linux from Android.*

05–07 2013 **Rice Univeristy** Research Internship  
*Implemented a dual-core Physically Unclonable Function.*

## Publications

2016 **DroidAuditor: Forensic Analysis of Application-Layer Privilege Escalation Attacks on Android** 20th Financial Cryptography and Data Security Conference  
*S. Heuser, M. Negro, P. K. Pendyala, and A. - R. Sadeghi*

2014 **PUFatt: Embedded Platform Attestation Based on Novel Processor-Based PUFs** Best paper candidate, 51st Design Automation Conference  
*Kong, J., F. Koushanfar, P. K. Pendyala, A. - R. Sadeghi, and C. Wachsmann*

## Achievements

- Winners of MAPPING Competition and €20,000 prize money, CeBIT 2016, Hannover
- A. Richard Newton Young Student Fellow Award, DAC 2014, San Francisco
- Recipient of Indian Association for Research in Computing Science grant, 2013
- All India category Rank 1 among 470,000 students in IIT JEE 2010

## Projects

since 2012 **MDroid - Moodle for Android** Android, Githooks, REST, Markdown  
*Creator of native Moodle app for Android with 75K+ downloads on Play Store.*

2016 **Coursestats.de** AngularJS, PHP, Python, MySQL, REST API  
*Material designed webapp and API for community gathered course statistics.*

2015 **Omnishare** Android, Cryptography, Dropbox Core APIs  
*Client side encryption of Cloud data with multi-device and file sharing support.*

2015 **Phonion** Python, Java, Twilio, Asterisk, Google Voice, Selenium, Tor  
*An open, Tor like, Onion routing for phone calls to obfuscate call data records.*

2014 **Android accessory driver** Linux Kernel, Android accessory  
*Kernel driver to set any Android device into Accessory (ADK) mode.*