

Praveen Kumar Pendyala

Android developer | Linux enthusiast | Web hobbyist

Info

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Moltkestr. 15
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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, L^AT_EX, Moodle

Platforms

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

Note

Only included the most recent and major accomplishments in each section. For complete list, please refer to the web links in info section.

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 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

- 2017 **Phonion: Practical Protection of Metadata in Telephony Networks** Pro-
ceedings on Privacy Enhancing Technologies (PoPETs) 2017
- 2016 **DroidAuditor: Forensic Analysis of Application-Layer Privilege Escala-
tion Attacks on Android** Financial Cryptography and Data Security Conference 2016

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

Projects

- 2015–2016 **Omnishare** Android, Cryptography, Dropbox Core APIs
*Developed an Android application for client side encryption of data before up-
loading to cloud services like Dropbox. The system also supports simultaneous
multiple device installation and secure file sharing.*
- 2014–2016 **Phonion** Python, Java, Twilio, Asterisk, Google Voice, Selenium, Tor
*Phonion is a Tor like anonymization network for Telephony or VoIP communica-
tions. Designed and implemented the Phonion architecture which offers better
call quality than VoIP over Tor and supports offline calling.*
- 2014 **Android accessory driver** Linux Kernel, Android accessory
*Developed a Kernel driver to setup any Android device into Accessory (ADK)
mode. Also reused this as an independent module in developing a display
driver for Linux on Android as part of Google Summer of Code.*
- 2012–2016 **MDroid - Moodle for Android** Android, Github, REST, Markdown
*Created a native open sourced Moodle application for Android. The app re-
ceived over 75,000 downloads on Play Store and translated into 3 different
languages by contributors.*