

Praveen Kumar Pendyala

Android developer | Linux enthusiast | Web hobbyist

Info

DOB: 26.10.1992
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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, \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

- 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 75,000 downloads on Play Store.

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.

2014 **Programmable Delay Logic** Verilog, Xilinx ISE, Virtex 5
Implemented PDL on virtex 5 FPGA. Configurable precision of 10 picoseconds.