Praveen Kumar **Pendyala**

Android developer | Linux enthusiast | Web hobbyist

Info

http://pkp.io github/praveendath92

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

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

2014-2016 **Masters,** Distributed Software Systems Technische Universität Darmstadt GPA of 3.5 out of 4.0 in US grading – converted from 1.50 in German grading.

2010–2014 Bachelors, Electrical Engineering Indian Institute of Technology Bombay

Experience

since 2014 Systems Security Lab, TU Darmstadt Android Developer and Security Researcher Working in Cloud, Android and Mobile security.

05–08 2014 **Google Summer of Code** Android Developer and Linux Kernel Programmer Developed kernel display drivers for remotely accessing Linux from Android.

05–07 2013 **Rice University, Houston** Hardware Security Researcher and Verilog Programmer Implemented a novel Hardware security module and published it in DAC 2014.

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 Escalation 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 and Google Drive 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.

2015–2016 **Phonion** Python, Java, Twilio, Asterisk, Google Voice, Selenium, Tor

Phonion is a Tor like anonymization network for Telephony or VoIP communications. Designed and implemented the Phonion architecture which offers better call quality than VoIP over Tor network and also supports offline calling.

2014 Android accessory driver

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, Githooks, REST APIs, Markdown

Created a native open sourced Moodle application for Android. The app received over 80,000 downloads on Play Store and translated into 3 different languages by contributors.