

Praveen Kumar Pendyala

Android developer | Linux enthusiast | Web hobbyist

Info

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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 or 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 University** Research Internship
Implemented a dual-core Physically Unclonable Function.

Publications

2017 **Phonion: Practical Protection of Metadata in Telephony Networks** Proceedings 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 Core APIs
Developed an Android application for client side encryption of data before uploading 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 communications. 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 received over 75,000 downloads on Play Store and translated into 3 different languages by contributors.