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

2014 - 2016 **Systems Security Lab, TU Darmstadt** Android Developer and Security Researcher Successfully completed 3 different projects in Cloud security, Anonymous voice communications, and Analysis of attacks on Android. Co-authored 2 papers published in top tier conferences (one more in submission).

05–08 2014 **Google Summer of Code**Android Developer and Linux Kernel Programmer

Developed kernel display drivers for accessing the GUI of a Linux device on

Android by connecting with a USB cable. Also implemented an open source

kernel driver to setup any Android device into Android Accessory mode.

Publications

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

Achievements

- Winners of MAPPING (Managing Alternatives for Privacy, Property and Internet Governance) App Competition and €20,000 prize money at CeBIT 2016, Hannover
- A. Richard Newton Young Student Fellow Award, DAC 2014, San Francisco

Projects

2015–2016 **Omnishare**

Android, Cryptography, Dropbox and Google Drive APIs

Omnishare is an Android application for client side encryption of data before uploading to cloud storage services. Collaborated with a team of 5 in designing the encryption architecture. Developed the Android application using modular components and Factory design pattern for abstracting different cloud APIs.

2015–2016 **Phonion**

Python, Java, Twilio, Asterisk, Google Voice, Selenium, Tor

Phonion is an anonymization network for voice communications. Designed and implemented the Phonion architecture which offers 50% lower latency and 30% better voice quality than alternatives like VoIP over Tor network.

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.