JOYDEEP MITRA

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EDUCATION

PhD Kansas State University,

Computer Science Aug 2014 - current

Expected: August 2020

BS West Bengal University of Technology,

Information Technology 2006-2010

HONORS AND AWARDS

Ann and Dave Braun Student Inventor Award, Kansas State University

Awarded to 1 student in the university annually for an innovation with commercial potential

Android Security Rewards, Google Inc. 2018

Awarded for discovered vulnerabilities affecting Android 7 thru Android 9 (CVE-2018-9548)

Kansas State Engineering Fellowship, Kansas State University

Awarded to select incoming PhD students

EXPERIENCE

Research Assistant 2016-2018

- Ghera A repository of Android app vulnerability benchmarks: https://bitbucket.org/secure-it-i/android-app-vulnerability-benchmarks
- Rekha An empirical evaluation of freely available security analysis tools in Android. https://bitbucket.org/secure-it-i/may2018/src

Google Summer of Code

Summer 2017

2019

2014-2016

Intern, MIT Media Labs

 Co-designed and implemented CloudDB for developers of MIT App Inventor. https://github.com/JoyMitra/appinventor-sources/blob/joy dev/My GSOC Contribution.mdSkill/Accomplishment/Project

Cognizant Technology Solutions, India

2010 to 2014

Programmer Analyst

• Helped develop and maintain the payment management system for insurance companies like MetLife and John Hancock

TEACHING EXPERIENCE

Kansas State University, USA

May 2014 to current

- Course Assisted:
 - o Logical Foundations of Programming
 - Software Testing Techniques
 - Introduction to Software Security
 - o Programming Languages Design & Implementation
- Responsibilities:
 - Help sessions to assist students with the material
 - o Grading and designing assignments and exams

PUBLICATIONS

Journal Publications

Venkatesh-Prasad Ranganath, and **Joydeep Mitra**, "Are Free Android App Security Analysis Tools Effective in Detecting Known Vulnerabilities?" Empirical Software Engineering (EMSE), 2019. (*Equal contribution*)

Conference & Workshop Papers

(Peer-Reviewed)

Joydeep Mitra and Venkatesh-Prasad Ranganath, "Ghera: A Repository of Android App Vulnerabilities". International Conference on Predictive Models and Data Analytics in Software Engineering (PROMISE) 2017.

Joydeep Mitra and Venkatesh-Prasad Ranganath, "BenchPress: Analyzing Android App Vulnerability Benchmark Suites". International Workshop on Advances in Mobile App Analysis (A-Mobile), 2019.

Joydeep Mitra and Venkatesh-Prasad Ranganath, "SeMA: A Design Methodology for Building Secure Android Apps". International Workshop on Advances in Mobile App Analysis (A-Mobile), 2019.