

# Amogh Pradeep

## PERSONAL DETAILS

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*Birth* August 13, 1995  
*Email* amoghbl1@gmail.com

## EDUCATION

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**PhD in Computer Science** 2018 - current  
*Northeastern University, Advised by David Choffnes*

**Bachelor of Technology in Computer Science and Engineering** 2013 - 2017  
*International Institute of Information Technology, Hyderabad*

## PUBLICATIONS

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**Proceedings of the 2018 ACM SIGSAC Conference on Computer and Communications Security** *The Web's Sixth Sense: A Study of Scripts Accessing Smartphone Sensors, Das, Anupam and Acar, Gunes and Borisov, Nikita and Pradeep, Amogh*

## RESEARCH EXPERIENCE

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**Research Assistant** 2017 - 2018  
*Northeastern University*

Continued the project started at EPFL. Deployed a short scale study to measure the application and analyse it's usage patterns and derive properties of such a network in practice. Worked on a paper detailing the properties and functionalities of said project.

**Research Internship** 2017  
*École Polytechnique Fédérale de Lausanne*

Worked on a Mobile Anonymity network implemented using short range communication channels. Designed and implemented this network. Measured the efficiency and energy consumption of the implementation.

**Visiting Scholar** 2016  
*Katholieke Universiteit Leuven*

Worked on browser privacy/security, from a mobile perspective. Trying to find new methods to de-anonymise people by tracking their web browsers and coming up with effective defenses for this problem.

## **WORK EXPERIENCE**

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### **Student Software Developer** **2014, 2016**

*Google Summer of Code, under The Tor Project and EFF*

Worked on the Android application Orbot and started Orfox as part of this program. Used my experience with Android application development and learned a lot more about the security perspective of Android applications during this.

### **Student Systems Administrator** **2015 - 2017**

*International Institute of Information Technology, Hyderabad*

One of four people at IIIT appointed to maintain and secure all the systems on campus including all the infrastructure from email systems to websites. In doing so, gained experience in securing and maintaining computer systems from a practical point of view.

### **Lead Developer and Maintainer** **since 2015**

*Orfox: Aspiring to bring Tor Browser to Android*

Orfox <https://dev.guardianproject.info/projects/orfox-private-browser>, an effort to replace the current default browser Orweb with a more secure browser based on Firefox for Android, built on the tor-browser repository. Currently the lead developer of this project.

### **Software Developer (Contributor)** **since 2014**

*Mozilla Foundation*

Started contributing to Mozilla's mobile application, Firefox for Android; motivated by their open source work. All my work can be found at Github <https://github.com/mozilla/gecko-dev/commits?author=amoghbl1>.

### **Software Developer (Contributor)** **since 2013**

*The Guardian Project and Tor*

Started contributing to their android application (Orbot) due to my experience with Android. My work can be viewed on Github and also the official repository at <https://gitweb.torproject.org/orbot.git/blob/HEAD:/AUTHORS>.

## **REFERENCES / LINKS**

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| <i>Github</i>  | <a href="http://github.com/amoghbl1">http://github.com/amoghbl1</a>   |
| <i>Website</i> | <a href="http://amoghbl1.me">http://amoghbl1.me</a>   |
| <i>Scholar</i> | <a href="https://scholar.google.com/citations?user=hdAh5GOAAAAJ">https://scholar.google.com/citations?user=hdAh5GOAAAAJ</a> |

## **OTHER INTERESTS**

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I was an admin of the Open Source Developers Group <http://osdg.iiit.ac.in> in college. An active member of the club, I help organize events in college and try to spread the spirit of open source. Participating at hackathons and attending talks is another thing that I like to do if I can make the time for it. I also try to maintain an accurate list of projects that I work on on my website <http://amoghbl1.me/projects>.