

Raghav Toshniwal

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EDUCATION

London School of Economics and Political Science, London, United Kingdom

- MSc in Management of Information Systems and Digital Innovation 2015 – 2016
 - Thesis: The Effects of Using APIs on Coordination during Software Development
 - Courses Taken: Data Governance and Privacy, Innovating Organisation IT, Big Data and Social Computing
 - Research Areas : Privacy by Design and its effects on generativity, API design and security
 - Grade Obtained : Distinction

St Xavier's College, Kolkata, India

- BSc in Computer Science (Hons) 2012 – 2015
 - Thesis: Design of an Intelligent Voice Controlled Home Automation System
 - Courses Taken: Algorithms and Data structures, Compiler Theory, Operating System, Database Management
 - Minor: Mathematics and Physics
 - Grade obtained: First.

WORK

EXPERIENCE

Flexi Rural

- Project Lead Jun 2017 –
 - Led the development of a low cost LTE solution for use in rural areas
 - Led the development of a highly secure wireless solution for use by military and defence forces
- Software Defined Radio Engineer Aug 2016 – Jun 2017
 - Developed key GSM modules for application in rural telephony
 - Worked on voice encryption and improved on known GSM security gaps

Hiroes

- Lead Backend Developer May 2016 – Aug 2016
 - Responsible for developing scalable backend infrastructure for a large platform.
 - Had a key role in product development and company strategy

Make A Difference

- Mentor & Teacher 2012 – 2015
 - Taught Mathematics, English and Computer Science to underprivileged children in a shelter home.
 - Mentored a group of 12 Volunteers who were part of an NGO and aided them with their work.
 - Achieved highest city wide volunteer efficiency and lowest volunteer attrition rates.

PERSONAL PROJECTS

Public Bloom Filters

Sep 2017

An experimental shared data structure, optimised for performance for checking set membership
Read more at: <https://raghav.cc/publicbloomfilters>

Farket

2016

An Internet based farmer's market using text messages for interfacing. It allows farmers to negotiate rates leveraging the ubiquity of the Internet.

Ideal for rural areas with low Internet penetration.

Read more at: <http://raghav.cc/farket>

More projects at: <https://raghav.cc/projects>

PUBLICATIONS

JOURNALS

R. Toshniwal, A. Nath, and K. Dastidar, "Big Data Security Issues and Challenges," *International Journal of Innovative Research in Advanced Engineering*, vol. 2, no. 2, Feb 2015.

R. Toshniwal, S. Chakrabarty, and R. Beed, "Solar-Powered Automated Plant/Crop Watering System," *International Journal of Advanced Engineering and Global Technology*, vol. 3, no. 1, Jan 2015.

AWARDS AND ACHIEVEMENTS

- Distinction, London School of Economics and Political Science 2016
- Summa cum laude, St. Xavier's College 2015
- Assistant Secretary, Xavier's Quizzing and Debating and Society 2015
- Microsoft Best Cloud Hack, Imperial College Hackathon Feb 2016

SKILLS

Java, Python, C, Mobile Application Development (iOS and Android), AngularJS, Linux, ReactJS
LaTeX, UX Design, Distributed Application Development.