Raghav Sethi

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Education

Institution	Degree	GPA
Princeton University *(2013 - 2015*)*	**Master of Science in Engineering (M.S.E.) in Computer Science** - Area: Systems and Networks - Advisor: Dr. Michael J. Freedman - TA: Advanced Programming, Introduction to Programming Systems	4.0
IIIT-Delhi, India *(2009 - 2013)*	**Bachelor of Technology (B. Tech.) in Computer Science and Engineering** - Student Representative, Head of Design Team - TA: Introduction to Programming	9.2

Work Experience

Facebook Inc. Menlo Park, CA *(May - August 2014)*	**Software Engineer Intern - Data Infrastructure - Realtime Data** - Shipped reliability improvements and added major functionality to Puma, a realtime distributed stream-processing system that handles ~ 200,000 events/sec and powers 100+ applications at Facebook
Microsoft Corp. Hyderabad, India *(May - July 2012)*	**Software Engineer Intern - Microsoft Office - Unified Communications (Lync)** - Developed graph tools to identify and track usage scenarios and feature coverage during dogfood testing. Automatically identified groups of related features and user flow patterns – helped PMs make data driven decisions on features and UX.

Technical Skills

Programming Languages	Java, C, Python, C#, Javascript
Tools + Technologies	Git, Node.js, Django, Flask, SQL, MongoDB, AWS, Google App Engine, HTML/CSS, IntelliJ IDEA, Eclipse, Visual Studio, Photoshop, Illustrator

Selected Awards

Princeton University *(2014)*	**'Best Design' and 'Software Top 10' at HackPrinceton 2014**
IIIT-Delhi *(2013)*	**'Best All-Round Student Award' - Graduating Class of 2013**
Esya, IIIT-Delhi *(2013)*	**'Best App' at Esya Hackathon**
Microsoft IDC *(2012)*	**'Best App' at Intern Hackathon**
Microsoft, IIT-Delhi *(2012)*	**'Best App' at Windows Phone App-a-thon**
Yahoo R&D *(2011)*	**'Most Useful' app at Yahoo! HackU IIT-Delhi**
Springdales School *(2009)*	**Principal's Award for Excellence in Computer Science**
Govt. of India *(2007)*	**Scholarship: Junior Science Talent Search Examination - All-India Rank 32**

Selected Projects

Freedupe : Optimizing mobile app traffic through zero-effort deduplication *(2014)*
Developed an HTTP-based protocol, and an Android library, which along with an Nginx plugin enabled developers to automatically reduce data consumption of their mobile applications by changing a single line of code. Simulations on top Android applications show that 10-15% reductions can be obtained through inter-request deduplication.

DiffHistory : Visualizing history being written through Wikipedia edits *(2014)*
Developed a system that monitors live edits on Wikipedia and correlates these with breaking news articles. The system performs named-entity recognition to identify article geo-locations. Results are displayed on an interactive timeline, where users can visualize how important world events led to changes in Wikipedia articles in a given period of time. Processed streams in realtime using Node.js, Java and Python, and visualized using D3.js

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Bounced : Delay-tolerant filesharing for low-availability wireless networks *(2012)*
Designed application-layer protocol and developed client and server applications for a filesharing network that intelligently replicates requested files to increase availability.

What's Next Up : Reducing information overload by leveraging social signals *(2011)*
Developed a web application using the Google App Engine/Java stack. What's Next Up is an entertainment event aggregator, recommendation and filtering service. It offers a dead-simple way to easily view a personalized schedule of new movies, books, music and TV shows. Has 1800+ users and some press: (http://www.whatsnextup.com/)

RightFare : Empowering autorickshaw passengers using simple geographic services *(2010)*
Designed a simple system to help passengers determine the approximate autorickshaw fare between any two geographic locations using SMS. Developed into a commercial product: (http://www.ideophone.in/products/sms/)

Publications

Raghav Sethi, Naved Alam, Mayank Pundir and Pushpendra Singh. **Bounced - Improving Data Availability through Replication in P2P Networks**, In Fifth International Conference on Communication Systems and Networks, Bangalore, India. *(2013)*

Denzil Correa, Ashish Sureka and Raghav Sethi. **WhACKY! - What Anyone Could Know About You from Twitter**, In Proceedings of the Tenth Annual Conference on Privacy, Security and Trust (PST), Paris, France. *(2012)*