

# Shachee Mishra

Ph.D. Student

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## Academic Profile

Degree Course:	<b>Ph.D. in Computer Science &amp; Engineering (2014-18(expected))</b> SUNY, Stony Brook.	GPA : 3.7
Degree Course:	<b>M. Tech. in Computer Science &amp; Engineering (2011-13)</b> Indian Institute of Technology Guwahati, India	CPI : 8.47
Degree Course:	<b>B. Tech. in Computer Science &amp; Engineering (2007-11)</b> Gautam Buddha Technical University, Lucknow, India	%age : 79.28

### Schooling:

Class	Year	Board	School	Agg. %age
XII	06-07	C.B.S.E.	DAV Sr. Sec. Public School, UP, India	93.2
X	04-05	C.B.S.E.	DAV Sr. Sec. Public School, UP, India	91.2

## Key Projects

<b>Research Project</b> (Apr,2015-present)	<b>Performance debugging for Distributed Systems.</b> Linux kernel instrumentation and development to debug performance trends of network based applications. This involves rewriting major portions of network stack in the kernel to enhance and analyze performance.
<b>SPARCV8 processor</b> (Feb,2015-Apr,2015)	<b>Superscalar, Out of order, Speculative processor.</b> Design and implementation of processor for SPARCV8 Instruction set using System Verilog. Developing and using a dual ported, set associative cache was also part of the project.
<b>JOS</b> (Sep,2014-Dec,2014)	<b>Kernel Preemptive Kernel based operating System development.</b> JOS kernel developed that handles user I/O, software and hardware interrupts, system calls, timer based scheduling.
<b>M.Tech. Project</b> (June,2012-July, 2013)	<b>Wireless Visual Sensor Network: Half-View Barrier coverage in Camera Sensor Networks.</b> <b>Project Advisor: Dr. S.V. Rao</b> Barrier is defense line around or along an area to ensure detection of events of a specific kind. A scheme/algorithm was developed to decentralize the formation of barrier across randomly deployed sensors.

## Professional Experience

**Adobe Systems India Pvt. Ltd. Member of Technical Staff (July 2013- Aug 2014)**

### Developer – Adobe Localization Framework(ALF) 3.0

Development team in designing ALF system, a client-server application, developed using AngularJS framework for the web client.

### Developer – Globalization Portal(GPortal) 2.0

Core developer for secure and scalable Gportal system, developed entirely in ColdFusion for web client. The portal is extensively used across the globe by Adobe employees and business associates.

## Key Projects

<b>Globalization Project</b>	<b>Support for RTL languages in Adobe Products</b> Being part of the Globalization team, development of support RTL(right-to-left) languages focusing mainly on Middle-East North African (MENA) languages.
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<b>Localization Framework WebApp</b>	<b>Web application for localization work management</b> Adobe internal product used by developers, QA team and managers to perform localization work. Client end developed in AngularJS, JQuery and HTML5. Backend completely developed in Java.
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## Internships/Major Projects

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<b>Jan,2012- Apr,2012 (4 Months)</b>	<b>HTTP based multicast</b> <b>Project Advisor:</b> Dr. T.Venkatesh, Assistant Professor, Dept. of Computer Science, IIT Guwahati <ul style="list-style-type: none"> <li>▪ The aim was to show the evolvability of HTTP by a multicast chat server that used HTTP as the communication medium for all the ongoing message exchanges.</li> </ul>
<b>Aug,2011- Dec,2011 (4 Months)</b>	<b>Gene Usage prediction based on codon pattern</b> <b>Project Advisor:</b> Dr. Ashish Anand, Assistant Professor, Dept. of Computer Science, IIT Guwahati <ul style="list-style-type: none"> <li>▪ The aim was to study available gene codon patters and use the knowledge gained to predict usage of unknown genes with given codon patterns.</li> <li>▪ Methods used include Artificial Neural Networks and Softmax regression.</li> </ul>
<b>Jun,2010- Jul,2010 (2 months)</b>	<b>Secure Network Administration</b> <b>Project Advisor:</b> Praful Agarwal, Technical Head, Kyrion Digital Securities, New Delhi, India <ul style="list-style-type: none"> <li>▪ The aim was to create a network with all security measures fully implemented.</li> <li>▪ These include configuration of its own Intrusion Detection System(IDS), Firewall , Honey-pot and De-militarized Zone(DMZ).</li> </ul>

## Computing Skills

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<b>Computer Languages</b>	: C, C++, Java, System Verilog, Python
<b>Web Technologies</b>	: Javascript, PHP, ColdFusion, Angular, JQuery
<b>Tools</b>	: Matlab, Xampp, Acunetix.

## Awards & Achievements

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<b>Academic:</b>	<ul style="list-style-type: none"> <li>▪ <b>AIR 642 (99.6 percentile)</b> in GATE2011 with Gate Score 729.</li> <li>▪ <b>DR1</b> for Dept. of Computer Science and Engineering during B.Tech.</li> </ul>
<b>Others:</b>	<ul style="list-style-type: none"> <li>▪ <b>CBSE merit award</b> for 100% marks in Mathematics in <b>class 10<sup>th</sup></b>.</li> <li>▪ Completed <b>RedHat Essentials and System Administration</b> Course work.</li> </ul>