

## Education

<b>Santa Barbara</b>	<b>UC Santa Barbara</b>	<b>Sept 2017 – Present</b>
<ul style="list-style-type: none"><li>• M.S. in Computer Science GPA: 4.0</li></ul>		
<b>Bangalore</b>	<b>PES Institute of Technology</b>	<b>Sep 2011 – Jun 2015</b>
<ul style="list-style-type: none"><li>• B.E. in Information Science Engineering GPA: 9.25 (Scale of 10)</li><li>• Selected Coursework: Computer Network &amp; Security; Natural Language Processing; Data Mining.</li></ul>		

## Employment

<b>Software Engineer</b>	<b>Amazon</b>	<b>Aug 2015 – Aug 2017</b>
Consumer Analytics Platform <ul style="list-style-type: none"><li>• Re-architecture of service (including new data model &amp; metrics) leading to 25% faster response.</li><li>• Implemented automated recovery system for big data analytic work-flows.</li><li>• Reduced operational load by 15% by breaking down monolithic service into a federated service.</li><li>• Added feature for failure and delay notification for work-flows.</li></ul>		
<b>Software Engineer, Intern</b>	<b>Amazon</b>	<b>Jan 2015 – Jul 2015</b>
<ul style="list-style-type: none"><li>• Improved usability of portal by adding interactive graphing section, report generation feature and pagination.</li><li>• Automated aggregation of customer scores using Apache Pig and publishing using AWS workflow service.</li></ul>		
<b>Software Engineer, Intern</b>	<b>Intuit</b>	<b>Jun 2014 – Aug 2014</b>
<ul style="list-style-type: none"><li>• Built a service to mask sensitive data to be consumed by QA Engineers.</li><li>• Reduced request time for data by 20% by moving backend for above service from MySQL to MongoDB.</li></ul>		

## Projects

<b>Secure Chat</b>	<b>2015</b>
<ul style="list-style-type: none"><li>• Device to Device messaging web application using End-to-End Encryption (E2EE) and Graph storage.</li><li>• Layered encryption was implemented using standard protocols such as PBKDF2, RSA, AES and SHA-256.</li><li>• Android client was built easily by making use of extensible service APIs</li></ul>	
<b>Sales-Rep Bot</b>	<b>2014</b>
<ul style="list-style-type: none"><li>• Intelligent bot to help guide customers with their queries on purchasing mobiles using NLP.</li><li>• Labeled corpus built by collecting user labeled responses and compiled using NLTK and Rule based classifier.</li><li>• Max Entropy Classifier was used to perform sentiment analysis and response was generated using scraped mobile data.</li></ul>	
<b>Wireless Network Pen-Testing</b>	<b>2014</b>
<ul style="list-style-type: none"><li>• Performed analysis and pen-testing of wireless networks starting with basic MAC filtering and spoofing attack.</li><li>• WEP was then tested making use of numerous published attacks and utilizing aircrack-ng tool.</li><li>• WPS pin in routers was brute forced due to its weak pin verification algorithm.</li></ul>	
<b>Enhancement of I2P</b>	<b>2014</b>
<ul style="list-style-type: none"><li>• A chat app allowing users to send messages under a pseudonym using I2P, a garlic routing protocol using overlay network.</li><li>• I2P's road-map was to upgrade their encryption standards from RSA to ElGamal. Implementation of ElGamal in the software stack was done followed by its testing and performance verification.</li></ul>	

## Skills

<ul style="list-style-type: none"><li>• <b>Languages</b> Java, Python, C (Proficient) Ruby (Worked On)</li><li>• <b>Experience with</b> AWS, Spring, Android SDK, NLTK, Hadoop, Spark</li></ul>	<b>Databases</b> MySQL, MongoDB
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## Accomplishments

- **First Place, College Hackathon (2013):** Awarded 1st place for web application for idea titled "NotesBazaar" which was about sharing of student notes across college.
- **First Place, Deloitte Cyber Security Challenge(2014):** Awarded 1st place for cyber security challenge conducted at college level.