

## EDUCATION

- Bangalore, India**                      **PES Institute of Technology, Autonomous under VTU**                      **Aug 2008 – May 2012**
- Bachelor of Engineering (BE) in Computer Science. **Junior-Senior GPA: 8.73** (on scale of 10). **Overall: 7.69**
  - Data Structures, Algorithms, Databases, Operating Systems, Programming Languages, Mobile Computing, Web 2.0, Software Engineering, Computational Theory, Unix Shell Programming.

## WORK EXPERIENCE

- Software Engineer**    **NetApp Inc.**    **June 2012 – current**
- Develop the NetApp Manageability SDK to empower NetApp customers' build 3<sup>rd</sup> party tools and data integration applications.
  - Development of active monitoring and alerting mobile applications using this SDK for the Android and iOS operating systems.
  - Admin of [developer.netapp.com](http://developer.netapp.com). Delivered product demonstrations and presentations to customers. Authored Technical Reports and articles for the SDK.
  - **Current Project:** Develop an API server which will be used by storage administrators to develop custom scripts (using automatically generated APIs) to automate their day-to-day activities. The server will trigger them based on events or at specific times set by the storage admin.

- Software Engineer Intern**    **NetApp Inc.**    **Jun 2011 – May 2012**
- Developed APIs to perform WAFL (Write Anywhere File System - NetApp's propriety file management system) manipulation tasks from virtual servers and cloud environments.
  - Developed an Eclipse plug-in to automate application Development using NetApp APIs.
  - Developed a Real-time documentation search application for Android. A core Database application using Virtual Tables in SQLite and Full-text search techniques.

## UNDERGRADUATE PROJECTS

- Tablet IDE with Handwriting Recognition (Android, Neural Networks)**    **Dec 2011 - Apr 2012**
- Implemented context-sensitive handwriting recognition on android by referencing existing publications. Used Self-Organizing Map (SOM) type of neural network coupled with greedy mapping algorithm to account for variability. Tuned it to approximately 85% accuracy given the context which is the syntax and semantics of the programming language.
  - Developed keyword auto-complete, syntax highlighting, compilation and execution of code on cloud, console display.

- SMS Computing (Java, NLP, Info Retrieval – Web Crawler)**    **Aug 2011 - Dec 2011**
- Bring the power of internet to basic mobiles phones just with the use of text-messaging (SMS). Helpful for a large population of India which cannot afford smartphones or mobile data plans.
  - Used Natural Language Processing to understand a SMS sent to the server by a user. Server uses a web crawler to compute results by referencing Wikipedia, Google Map APIs for directions, etc. and sends a reply within seconds.
  - Users can receive and reply to e-mails by SMS – Server uses IMAP for the same.

- Peer-2-Peer Video Conferencing Application (Android, Socket Programming)**    **Jan 2011 - Aug 2011**
- Research project aimed at establishing Video conferencing on android through the use of socket programming only. Aimed at understanding its benefits on power and resource consumption when compared to standard methods for video conferencing (like using Skype on android).
  - Implemented dynamic adjustments (during a conference) to the pixel ratio, resolution and image clarity based on network speed.

- K-notes: A smart mind mapping tool (Java, MySQL, Information Retrieval)**    **Aug 2010 - Dec 2010**
- Intelligent Data Retrieval from the web. A student enters terms into the system and it extracts the Wikipedia entry for that search and saves it in the form of a tag cloud.

### Amusement Park Database and Management Online Application (PHP, MySQL)

- Simple Web-based software built using PHP and MySQL that simulates the park in it, the rides, the number of people and all statistics for each ride and number of customers etc. could be generated.

### HTML PARSER AND VALIDATOR (C++)

- Systems programming lab project. Developed a parser that parses the HTML line by line and validates the same HTML file, if any errors exist it points out exactly where the error is and most of the times it offers an automatic correction as well. This was made completely in C++.

## ADDITIONAL COURSES AND PROJECTS

<b>HTML5 Image Editor</b>	Enables you to edit images. You can rotate images, convert them to black and white, set Thresholds to images, brighten them and also then save them to your computer. Find it <a href="#">here</a> .
<b>Mobile as Mouse</b>	Developed a Bluetooth application that makes your accelerometer enabled phone into a mouse for your computer.(Android)
<b>Design: Creation of artifacts in Society.</b>	Distinction <b>Certified by University of Pennsylvania</b> & Coursera, License <a href="https://www.coursera.org/records/HmNxvZUVjWsLupJ8">https://www.coursera.org/records/HmNxvZUVjWsLupJ8</a>
<b>Interactive News</b>	Designed and Developed an HTML5 Application that changes your news reading experience. Prototype : <a href="http://aashrayarora.tumblr.com/">http://aashrayarora.tumblr.com/</a>

## AWARDS AND HONORS

<b>National Science Olympiad Distinction</b>	Awarded Distinctive Performance in the 5 <sup>th</sup> National Science Olympiad of India. First Class with Distinction for the last 5 semesters of undergraduate study.
<b>IBM Campus Ambassador</b>	Organized events for students to interact with professionals from IBM.
<b>Cultural Secretary</b>	Organized and led my institution in cultural festivals and events.

## TECHNICAL SKILLS

<b>Languages &amp; Scripting</b>	<b>Java (Core), Android, PHP, C, C++, Python, SQL, JSP, Perl</b>
<b>Databases &amp; Servers</b>	MySQL, Mongo DB, Apache HTTP and Apache Tomcat servers
<b>Tools &amp; IDEs</b>	WAMP, LAMP, XAMPP, Eclipse, NetBeans
<b>Other Technologies</b>	Web 2.0 technologies, Servlets, JQuery, NetApp – Data ONTAP OS