

EDUCATION

MS, Computer Science, University at Buffalo, The State University of New York - **GPA – 3.47/4** **Dec-2014**
B.Tech, Information Technology, Amrita University, India - **GPA – 8.04/10 (First class with distinction)** **May-2009**

WORK EXPERIENCE

- Motorola Solutions** **Summer Intern** *Jun 2014 - Aug 2014*
- Increased **user productivity by 15%** by creating ‘**ScanAndPair**’ tool that will scan device barcode and perform Bluetooth Pairing which was done manually before (**Android**).
 - Developed credit/debit card **Payment APIs (Android)** for integrating Motorola devices with **Bluetooth POS** terminals.
- Honeywell Technology Solutions** **Senior Software Engineer** *Apr 2010 - Aug 2013*
- Innovated and demonstrated proof of concept (POC) for an idea on ‘**Automatic Device Location Tagging**’ by scanning **NFC tags** & fetching **GPS** co-ordinates during site commissioning (**Android**).
 - Created ‘**MAXPRO Mobile**’ – **Video Surveillance Android App** to stream live/playback surveillance video through ‘**Http Live Streaming**’ (**HLS**) and to manage alarms that enables real-time notification even when users are travelling.
 - Packaged setups & **automated nightly build** for MAXPRO VMS using **Basic MSI, Visual Build Pro** and **Jenkins**.
- HCL Technologies** **Software Engineer** *Dec 2009 to Apr 2010*
- Developed and integrated user profile module to manage user preference for ‘**USAA Web Application**’ using struts framework, **JSP, Servlets** and **DB2**.
- Honeywell Technology Solutions** **Summer Intern** *Jan 2009 to May 2009*
- ‘**Automation in .NET Application Development**’ - Eliminated manual steps and **increased developer productivity** by creating automation tools such as ‘**Sandcastle Document Generator**’, ‘**Clearcase Helper**’ and ‘**Batch Build**’

SKILLS

Languages: Java, Android, C, PHP, SQL Server, Application Packaging.
Tools: Eclipse, Visual Studio, Git/Clearcase/SVN, Jenkins, Visual Build Pro, Knowledge of Hadoop.
Process: Agile software development (**Scrum**), Continuous Integration, **Six Sigma (Green Belt) - Software**.

PUBLICATIONS & CERTIFICATIONS

- ‘**Information Flows as Android Permission Mechanism**’ – An extension to existing permission mechanism that allows user to examine and grants permission based on cross-app information flows. (**IEEE/ACM Conference - ASE 2014, Sweden**)
- Sun Certified Programmer in Java (SCJP)** – completed with **98% score**.

AWARDS

Outstanding Achiever Award, Individual Excellence Award, Partner Award, Team Excellence Award & Spot Awards
First prize (Java Debugging Contest), First Prize (InfoQuest Project Presentation) & **IBM-Great Mind Challenge '07 Participant**.

ACADEMIC PROJECTS

- Twitter Data Analysis (Java, Hadoop):** Analysis and visualization of Twitter data for trending topics, co-word occurrence, relative frequency and k-means clustering using MapReduce techniques in Hadoop. *(May'14)*
- OS/161 Process Syscalls & Virtual Memory (C):** Implementation of process system calls (fork, execv, getpid) and virtual memory functionalities (malloc, coremaps, TLB) for simplified operating system - OS/161. *(Apr'14)*
- Amazon Dynamo storage replication (Android):** Amazon Dynamo replicated key storage in android devices to achieve availability, linearizability and failure handling through Quorum replication. *(Apr'14)*
- Chord Distributed Hash-table (Android):** Implementation of Distributed Hash Table using Chord protocol with the node partitioning, node join and ring based routing of messages across android devices. *(Apr'14)*
- TravelSuggest Search Engine (PHP, Apache Solr):** Search engine suggesting travel destinations based on user preference featuring drill-down approach, faceted search, Geo-location search & user based personalized search. *(Jan'14)*
- Wikipedia Search Indexer (Java):** Search Indexer comprising of parser, tokenizer, analyzer and indexer processing multiple Wikipedia documents and generating optimized Search Index for faster retrieval of documents. *(Nov'13)*
- District Govt. Information System (JSP, DB2):** Web Service to eliminate paper-based petitions filing, certificate requests, public grievance complaints, etc by providing it online accessible. *(Jan'09)*