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(716) 400-6336   github.com/babuprasad

EDUCATION

MS, Computer Science, University at Buffalo, The State University of New York - **GPA – 3.50/4**   *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*

- o Increased **user productivity by 15%** by creating '**ScanAndPair'** tool that will scan device barcode and perform Bluetooth Pairing **(Android)** which was done manually before.
- o 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*

- o Innovated and demonstrated proof of concept (POC) for an idea on **'Automatic Device Location Tagging'** by scanning **NFC tags** & fetching **GPS** co-ordinates **(Android)** during site commissioning.
- o 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.
- o 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*

- o Developed **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*

- o '**Automation in .NET Application Development'** - Eliminated manual steps and **increased developer productivity** by creating automation tools – '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

- o **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)*
- o **OS/161 Process Syscalls & Virtual Memory (C):** Implementation of process system calls (fork, execv, getpid) and virtual memory functionalities (malloc, coremaps, TLB) in OS/161.   *(Apr'14)*
- o **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)*
- o **Chord Distributed Hash-table (Android):** Distributed Hash Table using Chord protocol with the node partitioning, node join and ring based routing of messages across android devices.   *(Apr'14)*
- o **TravelSuggest Search Engine (PHP, Apache Solr):** Search engine suggesting travel destinations based on user preference featuring drill-down approach, faceted search, Geo-location search and user based personalized search.   *(Jan'14)*
- o **Wikipedia Search Indexer (Java):** Integrated parser, tokenizer, analyzer, and indexer processing multiple Wikipedia documents and generating optimized Search Index for faster retrieval of documents.   *(Nov'13)*
- o **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)*