**BABU PRASAD DHANDAPANI**

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**WORK EXPERIENCE**

**Amazon Software Development Engineer**   *Mar 2015 - Current*

* + Designed & developed **‘AccountManagementService’** as part of new Micro service architecture to replace the existing account management functionality of legacy CAM service **(Java & Spring).**
  + Redesigned the existing architecture of **‘SellerEventAggregator (SEA)’** service and implemented the capability to mutate the financial events for B2B use case **(Java & Spring)**

**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 - Java)**.

**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 - Java)**.
  + 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.

**HCL Technologies Software Engineer**   *Dec 2009 - 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 - 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’

**EDUCATION**

**MS, Computer Science,** University at Buffalo, The State University of New York - **GPA – 3.57/4** ***Dec-2014***

**B.Tech, Information Technology,** Amrita University, India - **GPA – 8.04/10** **(First class with distinction)** ***May-2009***

**SKILLS**

***Languages***: Java, Spring, Android, C, PHP, Shell Script, HTML, JavaScript, Dynamo DB, SQL Server.

***Tools***: Eclipse, IntelliJ, 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), **First Prize** (InfoQuest), **UB-Hacking 2014** participant, Honorable Mention (**Innovation Fest 2016**)

**ACADEMIC PROJECTS**

* **Wakelock Resource Accounting (Android, AOSP):** Resource specific device power management by modifying the current Android framework layer and controlling background apps behaviors through Wakelock permissions. *(Dec’ 14)*
* **GrabImage – Object recognition App (Android, Java):** Mobile app developed for UBHacking 2014 which analyzes the picture using image recognition APIs and lists down Google and Amazon results of the product. *(Nov’ 14)*
* **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)*
* **Chord Distributed Hash-table (Android, Java):** 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, JavaScript):** 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):** Integrated parser, tokenizer, analyzer, and indexer processing multiple Wikipedia documents and generating optimized Search Index for faster retrieval of documents. *(Nov’13)*