

BABU PRASAD DHANDAPANI

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EDUCATION

MS, Computer Science, University at Buffalo, The State University of New York - GPA – 3.57/4
B.Tech, Information Technology, Amrita University, India - GPA – 8.04/10 (First class with distinction)

Dec-2014
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 - Java**).
- Developed credit/debit card **Payment APIs (Android – Java)** 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 - 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.
- Packaged setups & **Automated nightly build** for MAXPRO VMS using **Basic MSI, Visual Build Pro** and **Jenkins**.

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’

SKILLS

Languages: Java, Android, C, PHP, Shell Script, HTML, JavaScript, SQL Server.

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), **UB-Hacking 2014** participant.

ACADEMIC PROJECTS

- Wakelock Resource Accounting (Android, AOSP):** Wakelock Power Management App modifying the current Android framework layer to control background apps behavior including the one, which prevents device from sleeping. *(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, SQL):** 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)*