Ranjana Sinha

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Education

Indiana University, *Bloomington, Indiana*   July 2019
Master of Science in Computer Science
West Bengal University of Technology, *Kolkata, West Bengal*   August 2007 – June 2011
Bachelor of Technology in Electronics & Instrumentation

Work Experience

UITS Assistive Technology and Accessibility Centers, *Bloomington, Indiana*   September 2017 – Present
Alternate Media Production Assistant – Math Editor
- Formatting documents, converting math equations using **LATEX** and describing diagrams, graphs, figures, images with words for better understanding by the visually challenged.

Cerner India Pvt Ltd, *Bangalore, India*   October 2014 – July 2017
Senior Software Engineer
- Developed a new module for optimizing the billing process **JAVA-SWT** and **Cerner Command Language** for business logic.
- Created a new functionality to send notice to the service receiver when the provider offers a service that they believe will not be covered by the health plan using **C#, VB** (for legacy systems) and **CCL**.
- Involved as a developer in the project ICD 9 to ICD 10 Conversion to be rolled out in USA.
- Lead a team of 3 people implementation of Response Time Measurement System (RTMS) timers in existing code.
- Solved bugs, database optimization issues and system maintenance projects.
- Have organized knowledge sharing sessions, personally trained junior associates and created documents on existing functionalities for future training purposes.

IBM India Pvt Ltd, India, *Bangalore, India*   February 2012 – September 2014
Application Developer
- Developed a module to categorize buyers into groups for providing reward points to those who pay in installments or use credit cards to pay for their purchases and inform other customers about this new service via Email using **PL/SQL**.
- Designed and developed a module to implement client's own product delivery system which earlier was a service provided by a third-party vendor using **PL/SQL**.
- Developed a solution to keep track of the buyers who uses cash installments or credit cards to pay for their merchandise and to generate statements for driving business model using **PL/SQL** and **Oracle E-Business Suite**.

Academic Projects
- Developed a website for a musical band with an attractive frontend and a robust administrator Dashboard using **HTML**, **CSS**, **Javascript**, **PHP**, **POSTGRESQL**.
- Developed an audio classifier on an ARM-cortex-M3 microcontroller that samples input audio signal and after postprocessing and extracting frequency-based features from the recorded samples, runs it through a classification algorithm to detect TRUCK Sounds, using **C++**, **MATLAB**, **Python**.

Technical Skills
Languages: SQL, PL/SQL, Java, Python, HTML, CSS, C, C++, Javascript, PHP
Database: Oracle XE, 11g, 12c, MongoDB, POSTGRESQL
Tools: MS Visual Studio, Eclipse, Git, Tortoise SVN, Oracle SQL developer, Cerner Discern Visual Developer, MATLAB

Awards
- **Eminence & Excellence Recognition** - ORION Award in 2013 while working in IBM INDIA for my involvement in MDS project
- **NOTT Award** (Night On The Town on Cerner) in 2015 for delivering the project before time with minimal defects

Extracurricular Activities
- **Engagement Leader** – Event Logistics & Execution for *Women in Computing* at Indiana University Bloomington
- **Certified Indian Classical Singer** from Pracheen Kala Kendra, Chandigarh
- Initiated and organized Fun@Work events at my previous work places.