

RAMYA SARMA

Location: Bangalore, India

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SUMMARY

- Computer Science graduate from National Institute of Technology (NIT) – Trichy, India, a top 10 engineering institute in India
- 2 years (as of June 2017) work experience with Oracle India in Database Performance engineering, SQL optimization
- Technical skills include Java, PL/SQL, DB administration, android app development, web development
- Focused on pursuing advanced courses in data management, machine learning and algorithms theory
- Highly motivated team player with strong work ethic

EDUCATION

National Institute of Technology (NIT), Trichy, India

2011-15

B.Tech, Computer Science & Engineering, (BS Equivalent, 4 Year degree), GPA 7.84/10

Relevant Course Work: Data Structures and Algorithms | Discrete Mathematics | Operating Systems and Architecture | Database Management Systems | Computer Networks | Artificial Intelligence and Expert Systems

Grade 12

2010

Central Board of Secondary Education (CBSE), India, Percentage 89.6%

Grade 10

2008

Central Board of Secondary Education (CBSE), India, Percentage 89.4%

TECHNICAL EXPERIENCE

Oracle Corporation, Software Developer

June 2015 – Present

Team: Performance, Scalability and Reliability Engineering Team

Description: Proactive monitoring of database performance, scalability and reliability of Oracle SaaS Cloud Offerings during the development phase, and performance load testing.

Domain: All Oracle domains and products

Responsibilities:

- Monitor Database Backend and optimize SQL Queries
 - Recommend Database specific optimization
 - Recommend best practices for optimal performance of the database
- Achievements:** Identified and optimized over 500 issues in Oracle SaaS products across all domains in the development phase resulting in ~500% performance improvement.

Samsung R&D Institute, Intern

May-Jul 2014

Team: Multimedia Solutions/Convergence Team

Project: Group Media Playback in a Connected-Car (Android)

Description: An Android application to facilitate automatic pairing of devices among users travelling in a car with the car's head unit. Facebook 'likes' of users in the music category are matched with the existing content in the devices' local media player. This data is used to rate the songs on a 5 point scale using an intelligent algorithm enabling the app to play the highest recommended song on the head unit.

Responsibilities:

- Automate pairing of devices in a Connected-Car utilizing Samsung Chord SDK
- Integrate Facebook login with Android app utilizing Facebook SDK
- Collect SNS data utilizing Facebook Graph API
- Maintain SQLite3 database to collect and store data about the songs played on the device
- Match SNS data with local data, and devised an algorithm to generate playlist of most recommended songs

RESEARCH EXPERIENCE

B.Tech Thesis, Department of CSE, NIT Trichy

Jan - May 2015

Project: Job scheduling for Scientific Workflows on Clouds using Particle Swarm Optimization

Mentor: Prof. S. Jaya Nirmala

Description: The aim was to minimize the cost of execution of scientific workflows while meeting user defined deadlines. A Modified Particle Swarm Optimization technique was implemented to combine resource provisioning and scheduling into a single algorithm.

- Adjudged amongst the top 8 in the department by an independent panel of professors from IIT
- Reference: [Springer Computing 2016](#)

Responsibilities:

- Implemented the algorithm on CloudSim, WorkFlowSim
- Tested performance for Montage, Epigenome, CyberShake, Inspiral workflows
- Analyzed performance in comparison to other evolutionary algorithms

MANAGEMENT EXPERIENCE

Team Lead - Workshops, Core Team – VORTEX, 2015 – NIT Trichy

Jan 2015

Event Description: Vortex is the National Level technical symposium of the Department of Computer Science at NIT Trichy. Vortex, 2015 saw over 2000 participants from over 200 colleges across India.

Responsibilities:

- Organized Ruby on Rails, Python and Game Development hands-on tutorial workshops
- Managed a group of 25 volunteers

RELEVANT PROJECTS

Database Management Systems

Mar 2014

Project Title: Office Staff Information System

Mentor: Prof. M. Nandhini, Department of CSE, NIT Trichy

Description: Develop, test and implement software for storing and analyzing the staff details including personal and work related details enabling self-registration for new employees and self-update features for existing employees with search enabled for specific queries.

Responsibilities:

- Implemented backend database using MySQL
- Facilitated access to database by use of PHP
- Developed user interface using HTML and CSS
- Implemented Input Validation using JavaScript

Numerical Computing

Mar 2014

Project Title: Particle Swarm Optimization Algorithm for solving n-D linear equations

Mentor: Assistant Prof. Sri Devi, NIT Trichy

Description: Developed C++ code for solving a set of equations using Particle Swarm Optimization

SOFTWARE AND SKILLS

Languages	: C, C++, Java, HTML, CSS, JavaScript, jQuery, JSON, XML
IDEs	: Eclipse, NetBeans, IntelliJ IDEA, SQLDeveloper
Operating Systems	: Windows, Linux, Android
Scripting Languages	: PHP, Python, UNIX Shell
DBMS/RDBMS	: Oracle (11g, 12c), SQLite, PL/SQL

CERTIFICATIONS

- CDT Oracle Database PL/SQL and Fundamentals - Oracle University
- Oracle Database 12c: Administration Workshop – Oracle University
- CDT Oracle Fusion Middleware 11g: Build Applications with ADF I Ed 2 – Oracle University