RAMYA SARMA

11C, Brandywine Drive, Amherst, MA 01002
Email: ramyasarma13@gmail.com | Cell: +1 (413) 461-8946

SUMMARY

- MS Computer Science student at UMass Amherst specializing in data science
- 2 years work experience at Oracle, India; includes SQL optimization and Database Administration and Python automation scripting

EDUCATION

University of Massachusetts, Amherst, MA   **Sep 2017 – May 2019(Expected)**
MS in Computer Science (Ongoing)

National Institute of Technology (NIT), Trichy, India   **Jul 2011 – May 2015**
BS in Computer Science and Engineering |GPA: 7.84/10

Relevant Coursework •Machine Learning •Natural Language Processing •Advanced Algorithms •Data Structures •Advanced Database Management Systems • Data Visualization •Distributed Computing

PROFESSIONAL EXPERIENCE

Oracle Corporation, India   **Jun 2015 - Jul 2017 (2 years)**
Software Engineer - Performance, Scalability, Reliability Engineering

- Analyze results of stress testing in Oracle Fusion Middleware and Fusion Applications
- Identify performance bottlenecks in Oracle SaaS products
- Develop automation scripts using Python and PL/SQL for faster identification and resolution of slow database issues
- Optimize SQL queries and PL/SQL blocks and perform Oracle DBA tasks
- Coordinate with multiple development teams to ensure code fix is administered

Samsung R&D Institute, India   **May 2014 - Jul 2014 (3 months)**
Software Developer Intern - Multimedia/Convergence/Connected-Car
Project: Automate pairing of devices in a Connected-Car utilizing Samsung Chord SDK

- Integrated Facebook login with Android app utilizing Facebook SDK
- Collected SNS data utilizing Facebook Graph API, maintained database to collect and store data about the songs played on the device using SQLite3, matched SNS data with local data, and devised an algorithm to generate playlist of most recommended songs
- Demonstrated results with a live demo presented to local management

RELEVANT ACADEMIC PROJECTS

Course Project, Natural Language Processing - Sentiment Analysis of Financial News

- Perform the annotation of sentiment in financial news using semantic methodology
- Scrape financial news items to analyze sentiment and study the effect of media on stock behavior
- Tools used - WordNet/NLTK, Stanford CoreNLP, Sklearn, NumPy, Matplotlib

Final Year Thesis - Job scheduling for Scientific Workflows on Clouds using Particle Swarm Optimization

- Implemented the modified Java algorithm using CloudSim, WorkFlowSim on Eclipse IDE
- Tested performance for Montage, Epigenome, CyberShake, Inspiral workflows using Pegasus
- Analyzed performance in comparison to other evolutionary algorithms
- Adjudged among the top 8 projects of the year by a team of independent academic experts

Employee Management Portal

- Developed and tested software for storing and analyzing the staff details including personal and work-related detail, implemented backend database using MySQL, and facilitated access to database by use of PHP
- Developed user interface using HTML and CSS; Input validation using JavaScript

SOFTWARE SKILLS

Languages: C, C++, Java, Python	**IDEs**: Eclipse, NetBeans, IntelliJ IDEA, SQLDeveloper
Libraries: NumPy, SciPy, Scikit-Learn, Matplotlib, Pandas	**Operating Systems**: Windows, Linux, Android
Scripting Languages: PHP, UNIX Shell	**Web Technologies**: HTML, CSS, JavaScript, jQuery
DBMS/RDBMS: Oracle (11g, 12c), SQLite, PL/SQL	

Certifications (Oracle University) • CDT Oracle Database PL/SQL and Fundamentals • Oracle Database 12c: Administration • CDT Oracle Fusion Middleware 11g: Build Applications with ADF I Ed 2

LEADERSHIP EXPERIENCE

Workshops, Team Lead, Technical Festival, NIT Trichy

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