

NAMITA KALADY PRATHAP

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EDUCATION

Pennsylvania State University, University Park, PA

Aug 2019

Master of Engineering - Computer Science

GPA: 3.8 / 4

Courses: Database Management Systems, Data Structures and Algorithms, Computer Networks, Cloud Computing, Internet of Things, Computer Vision, Natural Language Processing, Introduction to Computer and Network Security.

BMS College of Engineering, India

Apr 2012

Bachelor of Engineering - Computer Science

GPA: 8.85 / 10

TECHNICAL SKILLS

- **Databases:** Oracle 11g, 10g, 9i.
- **Reporting Tools:** Oracle BI Publisher
- **Languages/Utilities:** SQL, PL/SQL, MySQL, Python, C, PHP, Unix Shell script and HTML.
- **Other Tools/Platforms:** AWS Lambda, Amazon S3, AWS Glue, Amazon Athena, Google BigQuery ML, Putty, PL/SQL Developer, Oracle Forms Developer, Core FTP, Oracle Retail Suite (12.0.10 and 14), Linux & Windows OS.

PROFESSIONAL EXPERIENCE

Tata Consultancy Services Ltd (TCS), India

Sep 2012 - Jul 2016

- Built and customized forms and packages for enhancements in Oracle Retail Merchandising System (ORMS).
- Developed and handled PL/SQL packages, stored procedures and database triggers.
- Automated manual database tasks to reduce the time of execution by nearly 40%.
- Wrote complex SQL queries involving inline and subqueries for faster data retrieval.
- Created several UNIX bash shell scripts according to the needs of the project and client requirements.
- Involved in all phases of the Software Development Life Cycle (SDLC) such as analysis, design, development, testing, implementation and maintenance along with timely delivery against aggressive deadlines.
- Provided application user training and 24x7 production support in ORMS and ORPM applications.
- Analyzed code for system testing and debugging issues with shell script programs and database transactions.
- Created test transactions to find, isolate and rectify issues.
- Instrumental in being awarded the "Chief Information Officer's Team of the Year" award from the client (Woolworths, Australia) in 2016.
- Received the "Star of the Month" award in May 2015 for exceptional performance in the project.
- Scored 96% in the certification – Oracle Database SQL Certified Expert in 2016.

ACADEMIC PROJECTS

AWS Glue versus Google BigQuery ML

May - Jul 2019

- Measured the processing time for different datasets between Spark on AWS Glue and Google BigQuery ML using the K-means clustering algorithm in Pyspark (Apache Spark and Python) and SQL.

Spark on AWS Lambda

Apr 2019

- Evaluated the performance of Spark on AWS Lambda using K-means clustering and Expectation Maximisation algorithms in Pyspark (Apache Spark and Python) with Amazon S3 and EC2 services.

Smoothing human body joint detections

Apr 2019

- Implemented Kalman filter and applied it to smooth human body joint detections produced by current vision algorithms for body pose estimation in Python.

Preliminary method for Gun detection using RF signals

Mar - Apr 2019

- Used the patterns from reflected RF signals on objects, and applied classification algorithms on the features extracted to differentiate metallic objects on a person. The programs to extract features from the sensor data and for classifying the features were done in Python.

Needham-Schroeder Protocol

Nov 2018

- Implemented the client side programming and verification of nonces for the Needham-Schroeder protocol in C.

Nurse Scheduling Problem

Oct - Nov 2018

- Designed and implemented a roster scheduling system for the Nurse Scheduling problem using PHP and MySQL.