

# Varun Pius Felix Rodrigues

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## EDUCATION

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**Master of Science in Computer Science** August 2015 – May 2017  
University of Florida, Gainesville, FL  
**Bachelor of Engineering in Electronics and Telecommunication** August 2008 – June 2012  
University of Mumbai, Mumbai, India

## SKILLS

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**Programming Languages:** Java, Python, Linux Shell scripting, C++, R, Matlab  
**Database:** Teradata, Oracle PL/SQL, Microsoft SQL Server, MongoDB, Cassandra, Apache Hive  
**Tools:** Tableau, IBM Cognos, Microsoft BI, SAP BusinessObjects, Informatica, Apache Spark

## WORK EXPERIENCE

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**MATLAB Cloud Services Engineering Intern**, The MathWorks Inc., Natick, MA January 2017 – May 2017

- Working closely with the Engineering, QE, and Usability team
- Specific tasks include performing data analysis, developing automated test suites, performing hands-on testing, debugging test failures, verifying bug fixes and collecting metrics

**Database Intern**, Apple Inc., Cupertino, CA May 2016 – August 2016

- Worked in the Data Engineering and Business Intelligence domain for Apple
- Worked on data modelling, data analysis, and data warehouse design and optimization to handle huge volume of data and build reporting solutions over this data warehouse
- Worked on tools such as Tableau, Teradata and R for data analysis and forecast modeling

**Systems Engineer**, Infosys Ltd., Bhubaneswar/Pune, India June 2013 – July 2015

- Responsible for the design and development of data warehouse using OLAP DBMS such as Teradata and Oracle
- Led the design of the staging and transformation database, and the development of staging, transformation and presentation database
- Designed and delivered business reports for clients using reporting solutions like IBM Cognos and SAP BusinessObjects and designed and performed Cube analysis using Microsoft SSAS
- Performed Unit Testing on the developed components

## PROJECTS

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**Market Reporting**, Apple Inc. May 2016 – August 2016

- Performed data modeling and designed data warehouse for campaign reporting using Teradata; reporting done using Tableau to serve as a front-end for analysts
- Developed Automation solution using shell scripts and cron jobs to automate tasks such as mail and procedure runs
- Designed forecasting model using R and reporting on Tableau for predictive analytics

**Deep Learning Classifier**, University of Florida March 2016 – April 2016

- Developed Deep learning classifiers to classify data from four different datasets. Output with the average of 96% accuracy was obtained. Algorithms implemented were Multilayer Perceptron and Recurrent Neural Network
- Classifiers developed using TensorFlow library in Python

**GOSAP VDW**, Infosys Ltd. March 2015 – July 2015

- Developed the transformation and semantic layer data warehouse, over which the entire reporting layer was built. Data warehouse was developed on Teradata. Tested the data warehouse for data consistency
- Developed a cube and performed cube analysis on it using Microsoft SSAS and delivered reports in IBM Cognos
- Performed ETL operations to move data from Staging to Transformation to Presentation layer and do data cleansing

**Vocal Emotion Recognition**, University of Mumbai October 2011 – April 2012

- Designed and developed a neural network system, which identifies the emotions of the person when he/she speaks into the system using Backpropagation Algorithm
- Co-authored a research paper 'MFCC-based Vocal Emotion Recognition Using ANN' based on the project