

Nirav Pancholi

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Education

Masters Professional Studies in Data Science

Baltimore, MD

UNIVERSITY OF MARYLAND BALTIMORE COUNTY

May 2022

Bachelors of Science in Computer Science

Baltimore, MD

UNIVERSITY OF MARYLAND BALTIMORE COUNTY

December 2017

- Received Maryland Higher Education Commission Scholarship throughout.

Experience

Intermediate Applications Developer

Timmonium, MD

UNITED PARCEL SERVICE

Feb. 2018 - PRESENT

- Implemented **Rest API** to host Route Optimizations service using **.Net Core**. This service also subscribes to Google PubSub.
- Using concepts of Object Oriented Programming, converted legacy micro-services written in C++ into C#. With advantages of **LINQ** and in built .Net features, developed better algorithms and strategies to reduce code complexity and improve user readability.
- Implemented configurable **RESTful service** to host communication with client services using C# and **.Net Framework**. These services helped us to synchronize with central database and keep track of the updates.
- Created, hosted and updated **WCF Services**.
- Designed and Developed **NuGet** package to make **Synchronous and Asynchronous HTTP client calls**. It also refines necessary URL for particular server calls from **Discovery API**. This Nuget package reduces code duplication and redundancy.
- Used **multi-threading** for many GUI applications as well as server apps.
- Maintained and Updated **WinForm** application which is used by all of UPS operations HUBs around the world. Front end is supported by **Infragistics UI Grid**. This application is core of UPS operations, thus handled with great responsibility.
- Designed and Developed test tool using **WPF** for test team to simulate the behavior of external components. Used **Data Binding** ability to the WPF application to get live feedback to user and create more interactive GUI. This tool has improved testing by reducing the time and resources which could have been wasted to install external components.
- Created and updated existing stored procedures, database schema, types and functions using **SSMS with SQL Server 2017**. Also Created **TSQL unit tests** for stored procedures and functions.
- Created and updated **build definitions in TFS** to lead towards the DevOps approach.
- Worked in **Agile team** and consistently delivered products during the sprint.
- As a part of client support, provided second level application support to **3500+ UPS operations HUB** during peak season. Troubleshoot, reviewed and resolved majority of the problems on the call, resulting into overall smooth operations in the HUB.

Software Developer - Intern

Timmonium, MD

UNITED PARCEL SERVICE

Jul. 2017 - Feb. 2018

- Updated and maintained legacy java applications to be on **Apache Tomcat**. Also added new **java servlets** to handle dynamic page requests from client.
- Updated traditional java applications to use **Maven** for dependency jars.
- Created **pipelines in Jenkins** to implement Dev-Ops approach to java applications.
- Created **Python script to automate** submitting weekly report using **Selenium webdriver**. This tool has helped the team to reduce man power used for weekly reports.
- Created **documentation and fixed bugs** for legacy applications.
- Created web application using **Javascript, HTML and CSS** which helps customer representatives to monitor customer accounts. In addition to the website, back-end process also sends emails to the customer rep. team if any user account exceeds threshold limit on the tracking numbers.

Technical Skills

Data Modeling Libraries	Keras, TensorFlow, scikit-learn, Numpy, Pandas
Programming Languages	C, C++, Java, C#, Python
Database	Spark, MySQL, SQLServer 2008 - 2017, SSMS, MySQL Workbench
Dev-Ops Tools	TFS, Microsoft Azure, Jenkins

Projects

Dogs vs. Cats

UMBC, MD

LEAD PROGRAMMER AND ETL DEVELOPER

- Worked in a group to create a model which derives data from **Hadoop File System**, and creates a model which compares prediction confidence from two neural networks; RESNET50 and VGG16.
- Used **Spark RDD** to filter, join and manipulate data before collecting and transferring to pandas dataframe.
- Used Google Open Image Dataset V4 for this project.

Car Sales Analyzer

UMBC, MD

PROGRAMMER

- Developed python program to scrap though different web domains to collect and analyze car sales in Maryland for past 20 years.
- Used **requests and BeautifulSoup** to parse the html files.
- Used **Pandas for ETL** and **Seaborn** for graph.
- Found that month of May has least average price and month of February has least amount of sale. Could be a good time to negotiate on your next car.

Kernel Module

UMBC, MD

PROGRAMMER

- Developed a Linux kernel module to install **misc device drivers** using **interrupt handling with secured multi-threading system**.
- Implemented **spin locks** to prevent any race conditions.
- Created new virtual Ubuntu system using **VirtualBox**.

Project Planner

UMBC, MD

DATABASE AND DESIGN LEAD - GROUP PROJECT

- Worked in a group to achieve **project planning system** (similar to TFS) that allows managers to **estimate total cost, time and dependencies of upcoming project**.
- Created a Website using HTTP, CSS and backend with PHP and mySQL workbench with SQLServer. Implemented stored procedures to prevent any SQL injections attack.

Personal

US Citizen, Willing to travel.