Rayster Fernandes

Senior Software Development Engineer

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**Github : https://github.com/Rayster271196**

**StackOverflow : https://stackoverflow.com/users/20101603/rayster-fernandes**

 **Summary(**Currently pursing Msc in Computer Science(1yr) at Maynooth University, Ireland**):**

With around a years of experience in Python3.7, ML models, tensorflow, fastAPI and numerous libraries such as pandas, seaborn, matplotlib, numpy, Keras, scikit-learn etc. I have worked on a variety of problems such a regression, classification, multiclassification, image classification using deep learning, clustering, recommendation systems, object detection and time series problems. With the support of my manager we founded the AI/ML department in my previous company(Afour technologies) and helped them bag a client project. I also have 3 years and 2 months of experience in coding in C++ using design patterns like singleton, façade and responders and observers. I also possess extensive knowledge about smart pointers and practice good memory management skills in C++. I pride myself on writing neat and easily understandable code following standard coding conventions.

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 **Skills:**

* Strong object-oriented expertise using design patterns such as Singleton, Abstract method, Strategy, Observers.
* Worked on various image and binary classification, regression and time series problems and managed to get an accuracy of 85-90%.
* Good knowledge of data pre-processing needed to get the best results.
* Worked extensively with postgresql.
* Worked with AWS services like sagemaker, comprehend, forecast, lex, personalize and recognition.
* Worked on various CNN’s models and created a script to efficiently choose which model should be used given the data we receive.
* Good knowledge on pytest, fastAPI, celery and rabbitmq.
* Worked with boost, pugixml, and restbed libraries and many more.
* Worked on sockets and REST API development.
* Responsible for implementation of features from concept to release.
* Worked in Agile / Scrum Environment.
* Knowledge on Angular JS framework.
* Clean code which follows coding conventions.

 **Work History:**

* Senior Software Development Engineer (*Nov 21 to Sep 22*)

*Afour Technologies Pvt Ltd*

* Worked on creating solutions for machine learning use cases and problems based on regression, classification, multiclassification, image classification using deep learning, clustering, recommendation systems, object detection and time series problem using Python.
* Worked on pre-processing data using various techniques to get 85-90% accuracy with the models used.
* Setup AI/ML department and helped get the company a client via various POC’s.
* Trained Interns and setup training plans to get them up to speed with POC’s already created.
* Learnt about fastAPI, celery and rabbitmq.
* Learnt about pytest framework for unit testing.
* Learnt basics of GoLang.
* Senior Software Developer C++ (*Oct 20 to Nov 21*)

*Inbetween Software Development Pvt Ltd*

* Working with BOOST, RAPIDJSON and PUGIXML libraries for implementing robust solutions.
* Worked extensively with various design patterns like singleton classes.
* Worked on implementing REST API’s.
* Working with JIRA to maintain time logs and efficient time management.
* Responsible to communicate with customers to understand issues and fix the issues for InDesign, QuarkXpress and Illsutrator.
* Responsible for front-end development and back-end development using Angular and C++ respectively for Adobe Illustrator CC2020 and CC2021 for windows and macOS.
* Responsible for improving performance of existing code bases in InDesign, QuarkXpress and Illustrator for all versions mentioned above.
* Responsible to communicate with java side server team to pinpoint bugs and issues in code.
* Software Engineer (*July 2018 – Aug 2020*)

*Visteon Technical services Pvt Ltd*

* Designed and implemented XCP handler for connecting calibration systems to electronic control units using C++.
* Responsible for coding, debugging and testing of Security Access Seed/key Algorithm with different levels of security using C++.
* Worked on singleton design patterns such a singleton classes to implement solutions.
* Worked on multi-threading and handling data over the LAN via sockets.
* Worked on development and testing for ADAS features in Matlab/Simulink 6 and also understanding technical documentation for AUTOSAR which is standard in the automotive industry.

**Education:**

1. Msc in Computer Science Software Engineering (September 2022-2023)

*Maynooth University, Maynooth, Kildare, Ireland*

* Currently pursuing.
1. Bachelor of Engineering in Computer Engineering (June 2014 – June 2018)

*Agnel Institute of technology and Design – Assagao, Goa, India*

* Passed with first class in distinction.
* Coordinated and organised technical (Tech-Urja) and cultural (FACT) event for our college
* Blood cancer detection using two data mining algos (k-nth neighbour and random forest) for accuracy comparison and image processing techniques for pre-processing of raw data.
* E-commerce website to buy phones of your choice using HTML, CSS and JS.
1. Higher Secondary Education in Science stream (June 2012 – June 2014)

*St.Xaviers Higher Secondary School -Mapusa, Goa, India*

* Learnt basics of Computer science and OS concepts.

**Accomplishments:**

* Developed and designed and hosted an online resume using HTML, CSS and JS and hosted on github pages.
* Implemented seed and key security algorithm for GAC project.
* Appointed sports in charge and organised various sports activities.
* 2nd rank holder intra-college for 4th year of B.E in Computer Engineering (2017-2018).
* 3rd rank holder intra-college for 3rd year of B.E in Computer Engineering (2016-2017).

**Technical References:**

* Name : **Vijay Makhijani**

Organization : **Afour technologies pvt ltd**

Designation : **Lead Software Development Engineer**

Phone Number : **+91 8007751576**

* Name : **Umang Salgia**

Organization : **Xoriant**

Designation : **SVP Technology Solutions**

Phone Number : **+91 9860053225**

* Name : **Vikram Narayan**

Organization : **Visteon(US)**

Designation : **Head of AI/perception ADAS**

Phone Number : **+1 (734) 288 1099**

**Interests:**

* Finance
* Stock market
* Fitness freak
* Football

**Languages:**

* English – Fluent.

**Declaration:**

I hereby declare that the above information is true to the best of my knowledge and belief, if given a chance, I can prove myself.