RESUME - Senior Engineer

**Deekshitha Manjunatha**

D014, Neeraja Sarovara, Kithaganur Circle, Near garden city college, Bangalore - 560036 •deekshitham494@gmail.com • 9449342471

**Experience Summary:**

* Total **4 years 8 months of experience** in the field of Python Development.
* **2 year 4 months of experience** in Web development using Python and Django Framework.
* **1 year 8 months of experience** as Full Stack developer.
* **8 months of experience in** AWS lambda and step functions.
* **2 years 4 months of experience** in **Real Time Signal Technologies pvt Ltd (**From May 2016 till Aug 2018)**.**
* **1 year 8 months of experience** inclient location **Airbus Group of India pvt ltd (**From Oct 2018 till June 5th)
* **8months** of experience in client location **GE Health Care** (From June 2020 to till date)
* Technical expertise in **Python 2.7, python 3.7, Pyqt4 and pyqt5, Pyautogui, numpy, matplotlib**
* Experience in developing Applications by using **MVT** frameworks.
* Experience in AWS (Lambda and step functions, cloud formation, dynamodb) with python.
* Experience in **Dicom** images (GI, ABUS, WHUS, CVUS, CT and MR) using **Pydicom library.**
* Having knowledge of **K-means,** and **KNN algorithms.**
* Possess excellent analytical, communication, interpersonal & problem-solving skills.
* Hands on technical development of mainframe application components.
* Competent to work on complex programming and analysis projects with limited direction.

**EDUCATION:**

* First Class in Bachelor of Engineering (Telecommunication) at MV Jayaraman College of Engineering Aug 2011 – May 2016
* First Class in 2nd PUC (Phy, Chem, Math, Bio), State Board, Karnataka, India Jun2009 – Apr2011
* Distinction in SSLC, State Board, Karnataka, India, May 2008- Apr 2009

**PROFESSIONAL EXPERIENCE**

**Project Experience Highlights:**

**Project #1 :** Private Tag extraction from Dicom Images (Pre-processing of data)

**Company :** GE Health Care

**Team Size :** 4

**Duration :** June 2020 to till date

**Environment :** Python 3.7, Pydicom, AWS, cloud formation, dynamodb, lambda and far- gate

**IDE :** Pycharm

**Project Details :** As dicom images is uploaded to AWS dicom images are read and meta data of the uploaded image is extracted and meta data is processed to next step function. Using the meta-data thumbnail is generated. If uploaded image is of type ultrasound images, then it is moved into ultrasound cropper step and if uploaded image is of type non-ultrasound images, then it is moved into non-ultrasound extraction step. If cropper enabled true in meta data, then derived images are formed and steps repeated.

**Description :** Development of new changes and Enhancements.

**Roles & Responsibilities**

* Developed private tag extraction from dicom images using python 3.7 for backend code.
* Developed library for private tag extraction from images.
* CFT changes are made for decision making of step function based on ultrasound images and non-ultrasound images.
* Involved in unit testing and writing test cases.
* Developed code according to Sonar criteria.
* Involved in bug tracking and fixing bugs.

**Project #2 :** Private Tag Service

**Company :** GE Health Care

**Team Size :** 3

**Duration :** June 2020 to till date

**Environment :** Python 3.7, AWS, cloud formation, lambda, postman, dynamodb

**IDE :** Pycharm

**Project Details :** Private tag information like group-element number, name-value pair and VR is stored in dynamodb. To store private tag information post API is used and private tags is stored in dynamodb using postman. To retrieve private tag information for particular private creator and ORGID from dynamodb GET API is used and it is retrieved using postman. To update existing private tag information UPDATE API is used. To delete private tag information from dynamodb DELETE API is used. To retrieve all private tag information of all ORGID’s GET ALL API is used.

**Description :** Development of new API’s (CRUD operation)

**Roles & Responsibilities**

* Developed POST, GET, GET ALL, UPDATE and DELETE API to post private tags into dynamodb
* Dynamodb queries are performed.
* Involved in writing unit test cases.
* Involved in bug tracking and fixing bugs.
* Developed code according to Sonar criteria.

**Previous Project #1 :** Post 2 Projects

**Company :** Airbus Group India pvt ltd

**Team Size :** 2

**Duration :** Nov 2018 to June 2019

**Environment :** Python 2.7, Pyqt4, QT Designer

**IDE :** Pycharm

**Project Details :** Pyqt4 is used to design an UI for the aircraft parameters, where it takes temperature at different levels of flight and parts as input and gives the graph at solar timings and normal timings. It also calculates the x, y and z coordinates of the parts when it is taken as node and elements. It also calculates cumulative difference between the two different elements and the nodes, and it plots the graph of that.

**Description :** Development of new changes and Enhancements.

**Roles & Responsibilities**

* Developed the application using Pyqt for front end and python 2.7 for backend code.
* Involved in plotting different kind of graphs using matplotlib and seaborn library.
* Involved in unit testing and writing test cases.
* Involved in bug tracking and fixing bugs.
* Developed UI for the Aircraft using pyqt
* Involved in integrating UI and backend code.

**Previous Project #2 :** Catiomatic

**Company :** Airbus Group India pvt ltd

**Team Size :** 2

**Duration :** June 2018 to Oct 2019

**Environment :** Python 3.7, Pyqt5, QT designer, Pyautogui, Pynput, pandas

**IDE :** Jupyter Notebook

**Project Details :** CATIOMATIC is a macro which automates CADCAM Application of Airbus Group India pvt ltd. Catiomatic launches Cadcam Application, catia and vpm where the DT, ENV and drawing sheets are created, it links DT, ENV and drawing sheets. It selects the different modes of the Aircraft. It also configures the aircraft mode and it reads the excel which has the part numbers. It takes part numbers from the excel and search for 3D parts, if 3D parts present it pastes it on the ENV created and this loop repeats. After the loop it saves all the parts saved on ENV and launches it in Caria Tool.

.

**Roles & Responsibilities:**

* Developed a macro to automate CADCAM Application
* Developed code for the automation
* Developed an UI to give the inputs
* Involved in unit testing
* Involved in bug tracking and fixing bugs

**Previous Project #3 :** FACT

**Company :** Airbus Group India pvt ltd

**Team Size :** 5

**Duration :** Oct 2019 to Apr 2020

**Environment :** Python 3.7, Pyqt5, QT Designer, Pyqtgraph, numpy, linear regression and

Non-linear regression

**IDE :** Pycharm

**Project Details :** Pyqt5 is used to design an UI for the aircraft parameters like takeoff distance, landing distance, stall speed, any possible speed without compressibility, Rate of climb, angle of climb, thrust required, Horizontal sustained turn, pull up, pull down, etc. UI contains all the parameters of the formulae, which gives the estimated graph required based on the parameters. UI contains Performance calculation, design, business case and economic evaluation of aircraft. This involves creating table for the mission definition; creating table also involves an UI which has parameters to enter in table. Based on this table the graph is created for the aircraft flying stages like takeoff, climb, cruise, descent, loiter and landing.

**Roles & Responsibilities:**

* Developed an UI for calculating performance, design, business case and economic evaluation of an aircraft.
* Developed front end code for the application.
* Developed backend code for the application.
* Involved in integrating both backend and front code.
* Developed an UI to give the inputs
* Involved in unit testing
* Involved in bug tracking and fixing bugs

**Previous Project#4 :** Transport License System

**Duration :** June 2016 – June 2018

**Company :** Real Time signal Technologies pvt ltd

**Team Size :** 3

**Environment :** Python, Django Framework

**IDE :** Pycharm

**Project Details :**  Transport License System used to manage Driving Licenses that are to be maintained in Transport Authority of Oregon State in the U.S. This application deals with Issue, Renewal and Cancellation of Driving Licenses, issuing, Renewal ID Cards, Customer Management, Transaction and Financial Management and Insurance Management etc. The issue of Driving License depends on the written test, skill test, and medical tests. Cancellation and regulation of Driving License depend on legal issues and misuse.

**Roles & Responsibilities**

* Developed the applications using Django Framework, which includes Python code.
* Involved in Django registration form and login form.
* Involved in unit testing and writing test cases.
* Involved in bug tracking and fixing bugs.
* Developed the back-end code using python.
* Involved in writing unit test cases using python.

**Personal Details :**

|  |  |
| --- | --- |
| Date of Birth | 15th Jul 1993 |
| Languages Known | English, Hindi, Kannada, Tamil, Telugu |
| Education | BE in Telecommunication at VTU University |
| Nationality | Indian |
| Permanent Address | Kolar, Karnataka, INDIA |
| Personal Interests | Reading Books, singing, Art, Listening to Music. |

**Declaration**

I hereby declare that the information furnished above is true to the best of my knowledge.

Place : Bengaluru

(Deekshitha Manjunatha)