**Bhaskar Kaushal,**

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# CAREER OBJECTIVE

Bhaskar Kaushal is a **Senior Analyst** in **PriceWaterHouseCoopers(PwC)** having an experience of **3 years 10 months** in creating scalable and highly available enterprise applications. He is good in data structures, JavaScript and Python .He is looking for an organization with whom he can grow with as he achieves their goals.

# TECHNICAL SKILLS

* Languages : JavaScript(Angular, Express and D3.js),Python, SQL **(3 years 10 months)**
* Database : SQL Server , PostgreSQL, Mongodb
* Tools/Applications : Docker, Git ,GCP(Google Cloud ) ,Tensorflow
* Methodologies : Agile
* Other competencies : Data Structures and Algorithms, Machine Learning ,Statistics,Deep Learning

# PROFILE SUMMARY

* Skilled Software Developer with 4+ years of professional experience in multiple technologies including **Angular ,Node** and **Python** .
* Worked as a full stack developer and handled projects in various business domains like healthcare ,parking ,mortgage using JavaScript frameworks/libraries like **Angular , Express** (in **node** runtime).
* Insightful knowledge on N-Tier architecture, Design Patterns (Factory, Dependency Injection, singleton ) **MVC** , **OOPS,REST,RPC**.
* Strong knowledge of cloud environments like GCP, Azure .
* Having solid knowledge on container orchestration systems like **Docker and Docker Compose to create microservices .**
* As a **Django developer (Python)** added core functionalities like Purchase order generation, maintain delivery status for a product in the start-up called supplified and extensively used libraries like **Pandas, Scikit-Learn, Numpy, NLTK and Scipy**.
* Having strong knowledge and troubleshooting skills in the storage environments (**DB2**, **SQL Server**).
* Initiated and lead status calls and meetings with onsite **Prolifics** and **Pwc** team to gather the requirements on the current project.
* Built a fraud monitoring tool which used machine learning and deep learning models with front end written in **Angular** and backend written in **Python** .
* Working knowledge of message queues like Kafka or Rabbit MQ

# WORK EXPERIENCE

## 1. Organization: PriceWaterhouseCoopers (01/2019-Present) Experience - 1.3 years

### 1. Client/Project 1 - Center for medicare and medical Services (HealthCare) (Jan/2019 – Present)

Technology used: Python ,NodeJS, Angular 5 and PostgreSQL

**Description:**

Worked on a compliance management tool which aimed to verify if the huge data files containing user data are compliant to the CMS/healthcare policies. If they were not compliant we had to point out the areas/fields in the files which are non-compliant and process huge chunks of data using niche technologies . Handled different program audit processes and created APIs for respective processes in node JS and Python

**Responsibilities:**

* Used express as middleware and created APIs to perform the CRUD operations.
* Wrote the service layer using express middleware in node JS and used swagger-tools for swagger documentation and service layer
* Used sequelize module to perform these CRUD operations and used it’s inbuild ORM abilities wherever possible to make the code maintainable, consistent and easy to understand.
* Widely used the concept of promises to handle the asynchronous operations.
* Extensively used concepts like Angularive forms, dependency injection to create Angular services
* Deployed the application to azure linux virtual machine instance in the respective environments(test/dev/prod) .

### 2. Client/Project 2 – Fraud monitoring solution in invoices. (Fraud) (Jan/2019 – Present)

Technology used: Python, MongoDb,Tensorflow, sklearn and GCP

Built an internal tool to detect the fraudulent activities in invoices by analysing invoice data. The tool aimed to use the concept of transfer learning and predicting whether a fed document is an invoice document or not. We used a pre-trained convolutional neural network using transfer learning. If it’s an invoice it extracts the required information from the image like PO number, GST number and entities in the invoice. The application was written in django and with backend architecture was created using in micro services with the help of nameko framework .

Responsibilites:

* Used the event driven nameko framework and created a micro services architecture for the same.
* Used tensorflow to develop models in state of the art techniques in the field of computer vision, ML and DL
* Used scikit for cross validating and created test/train splits .
* Leveraged pre-trained models like VGG16 and mobilenet to create new models.
* Designed, conducted and reported the results from prototype that focused on new tools ,methods or algorithms.
* Created an application using django and deployed it to Google Cloud Platform using app engine with nosql database which is mongoDb.

## 2. Organization: Prolifics Corporation Limited (04 July 2016 to Jan-2019) Experience – 2.6 years

### Client/Project 1 : SP Plus Corporation (Parking) (01/2018 – 01/2019)

|  |  |
| --- | --- |
| **Role: Full Stack Developer** | **Jan 2018 to Jan 2019** |

**Technology used :**Python ,NodeJS, Angular 5

**Description :**

SP Plus Corporation is an American provider of parking facility management services. Built an application which was used by the internal employees of the company to keep track of parking lots, bookings and other operations. My role was to manage the services (Node) hosted in **bluemix cloud** and handle the UI application (**Angular 2**) used for performing above mentioned operations.

**Tasks :**

Authentication

1. Implemented authentication using SecureAuth 2-factor authentication which acted as an IDP and verified the credentials using the SPPlus Active Directory. Using **passport** and **express JS** as a middleware, verified the response from SecureAuth and authenticated the user.

UI using Angular 2 and PrimeNg

Used Prime-Ng framework to create UI components for the application.

Using typescript as the primary language wrote the presentation and business logic for these components and implemented the authorization.

Implemented authorization using Angular Directives and services.

Service layer with IBM db2 and Swagger files-

1. Used node SDK to perform CRUD operations on the IBM **DB2 instance**.

2. Using swagger created the rest API's to create a service layer.

**Responsibilities:**

* Understanding the requirements(stories) and build the Angular components for the application.
* Interfacing with client business analyst and onsite prolifics developers and project manager to discuss and determine optimal specifications and solutions.
* Writing the service layer in node JS using swagger-tools which acted as a middleware provided a link between swagger documentation and service layer.
* Deploying the application to **bluemix** and deployed the services to a bluemix **VM centOS** instance.
* Handling production releases and maintaining current code base and doing peer reviews.

### 2. Client/Project 2 : Stearns Lending (Mortgage) (01/2018 – 01/2019)

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| --- | --- |
| **Role: Application Developer** | **Nov/2016 – Dec/2017** |

**Description:**

The mortgage project was a loan origination system which aimed to complete the loan life cycle from point of sale to closing of the loan. Pre and post-closing of audits, electronic document management were also the key specs of this application.

**Python, SQL and SSIS –**

* **Empower** was a framework that provided the ability to modify/the existing out of the box LOS(Loan Origination System). Stearns application was built on top of this framework .

Responsibilities:

* Adding new functionalities as per client’s requirements, fixing bugs by quickly understanding the project's codebase in Python.
* Troubleshoot in the storage environment i.e SQL server to perform CRUD operations.
* **SSIS and ETL** - Dealt with ETL packages, facts and dimensional tables which moved the data from existing databases and excel files as the sources using full load approach. The data was then used for analytical and reporting purposes in the cognos tool.
* Maintained an admin support application which followed **MVC** architecture with entity framework as the ORM. Application aimed to provide loan information to the employees of the firm.

# 3. Organization: Supplified Technologies(Internship) Delhi

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| --- | --- |
| Role : Django Developer(Python)(Intern) | **Jan/2016 – June/2016** |

**Django** - Django is python framework for quick prototyping of applications. Learnt how the MVC architecture works and understood the business workflow and scenarios of the program that the start-up was dealing with.

Responsibilities

1. Working on the content management system (CMS) of supplified which was based on Django and building core functionalities related to their order management system.
2. Successfully added various functionalities to their order processing module, like creating auto generated purchase orders which were used to purchase products from vendors.
3. Tracked the delivery of the product in the CMS by adding delivery tracking functionality for a particular order. From Processing to Delivered the status of product was maintained and sent to the customer .

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# ACHIEVEMENTS

* Got **RACE AWARD** for commendable performance in the Stearns project.
* **Technical**

1.) Successfully created **tensorflow** applications in python which classified documents using **Convolution Neural network** . (11/2017 – 12/2017) https://github.com/bhaskar2500/TensorflowApps

2.) Hosted an anomaly detection using **Django** app which shows anomalous behaviour using metrics like CPU usage, throughput. Used visualization library **matplotlib** to create images and **pandas** to manipulate data.

3.) Also used **SVM clustering (from sk-learn)** library algorithm in python to analyse the data and predict the anomalous behaviour and deployed the app on heroku.

* **Cultural**

1. Organized and headed an event on skateboarding in the college fest called "Algorithm".

# EDUCATION QUALIFICATION

[2016]

**[B.E.], Computer Science / [Chitkara University, Himachal Pradesh]**

CGPA – 6.4

[2012]

**[12TH] / [BBMB DAV Public School, Nangal]**

Percentage – 78.6%

[2010]

**[10TH] / [BBMB DAV Public School, Nangal]**

CGPA – 9.4

**INTERESTS**

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| --- | --- | --- | --- |
| 1. Meetup | 2 .BlockChain/AI | 3. Reading Books | 4 .Basketball |