**Jnaneswar**

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**PROFESSIONAL SUMMARY**

* Over **9.5+ years of experience** in various phases of **software/ embedded** applications engineering and design
* Hands on experience in **Python, Machine Learning**, Django, MSSQL, Oracle, Linux
* Good knowledge on Python **Collections**, **Multi-threading** and **Multi-processing**
* Good knowledge in object-oriented application design
* Knowledge in working with mobile application automation tools, **Appium**, **Perfecto** and **MonkeyTalk**
* Experience in developing web applications implementing **MVC** architecture using Django and Flask web application frameworks
* Good knowledge in GUI framework PyQt
* Experience in performing requirements analysis and creating **artifacts** and **software models**
* Good understanding of **Unified Process** and its implementation in **Agile model**
* Experience in both **test and behavior driven development** models for large enterprise applications
* Working knowledge on XML, JSON and REST APIs
* Experience in working with databases like Oracle, MS-SQL, MySQL, SQLite
* Good knowledge on application server **Apache Tomcat**, **WebSphere**
* Experience in writing **Shell** scripts for automation purposes
* Good knowledge on Python’s data science related modules like **pandas, seaborn, matplotlib**
* Good knowledge on Python’s machine learning modules like **scipy, sklearn**
* Good knowledge on embedded application development and testing
* Good knowledge on blockchain technology and cryptography
* Good knowledge on **mobile automation frameworks** for both Android and IOS
* Hands on experience in defect management tools **HP-QC, Bugzilla**
* Working knowledge on cross platform mobile applications
* Willing to learn new technologies within short time
* Good knowledge in telecommunications, climate controls and security applications
* Experienced in various phases of software testing life cycle
* Experience in team leading and project managing activities
* Knowledge in ACE process certification and mapping of organizational goals with team operations and working procedures
* Good knowledge in performing root cause analysis and troubleshoot process-oriented challenges

**EDUCATION**

Bachelor of Technology in Electronics &Communication Engineering, INDIA 2007

MS in Computer Science from University of South Alabama, Mobile, AL

**TECHNICAL SKILLS**

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| **Programming Languages** | Python, J2SE, C, PL/SQL |
| **Markup Languages** | HTML, XML, JSON |
| **App/Web Servers** | Tomcat, WebSphere |
| **Scripting** | Unix Bash, Java Script, JQuery |
| **Frameworks** | Django, Pandas, Flask |
| **Deployment Tools** | Amazon EC2 |
| **Web Services** | Web services (SOAP), WSDL, REST |
| **Tools** | Ant, Maven, Appium |
| **Test Automation Tools** | Appium, Perfecto, Monkey Talk |
| **Version Control** | Git, SVN, CVS |
| **Bug Reporting Tools** | HPQC, Bugzilla |
| **Design Pattern** | MVC (Model-View-Controller), Front controller, Factory pattern |
| **Databases** | Oracle, MS SQL, SQLite, MySQL |
| **Methodologies** | SDLC, Agile |
| **Operating Systems** | Windows, Unix, Linux. |
| **MS Office Tools** | MS Word, MS Powerpoint, MS Excel, Open Excel |

**PROFESSIONAL EXPERIENCE**

**AM/NS Calvert, AL – Graduate Intern – IT Team (June 2016 – December 2017)**

**Project – IT-PMO Data Governance**

**Description:**

The Data Governance application is a data analysis utility that queries SAP backend during the execution of various custom transaction codes. This application collects the fields in the databases that are used by a transaction code and analyses for any redundancies by comparing with other existing report programs.

**Responsibilities:**

* Performed **system design** and development for the application
* Created and maintained test specifications to enhance the stability and robustness of the application
* Performed requirements gathering and solution design activities right from the initial phase of project development
* Worked with **Django, HTML**, CSS and Bootstrap to design and maintain various HTML pages for the application
* Worked on **Python-RFC** communication framework to monitor the SAP database events during transactions runtime
* Implemented RFC **protocol analyzer** that fetches metadata information from the SAP database layer
* Identify slow reports and analyze the data bottlenecks that are responsible for the delay in execution
* Integrate the data governance application with Bobj data warehouse tool and to make available the governance data to other teams for verification purpose
* Used **Pandas API** to fetch database records into data frames for further analysis

**UTC Research Centre, Hyderabad India – Software Engineer (November 2012 – December 2015)**

**Project – AIO CPX Home Automation Panel,**

**Mastermind Monitoring Application Video Monitoring**

**Description:**

AIO CPX is a home automation embedded panel that is intended for use at residential homes to improve the user lifestyle by providing applications that will enable the user to control his/her utilities remotely and also attend to various emergency situation while away from home

Mastermind video monitoring application is used to monitor remote sites using DVR cameras and to raise site alarms at various operational sites where other Mastermind technicians work on their jobs. This application can fetch and show video data from any H.264 compatible DVRs without actually installing the custom DVR software on the physical server.

**Responsibilities:**

* Developed and delivered python applications responsible for relaying the data in UDP. Participated in functional verification, integration and unit testing of modules
* Worked on Mastermind Technician Django based web application that is designed for use by field technicians to manage their jobs
* Worked on the survey of mobile application automation testing tools and delivered POCs using Appium, Perfecto and Monkey Talk
* Worked in the role of an SDET (Software Developer Engineer in Test) and performed feasible study on open source tools and come up with Automation framework for embedded and mobile applications UI validation and Performance test and Tracking Memory and CPU consumption.
* Worked on the mobile applications automation testing using Python, Appium
* Worked on the development of python programs for XML parsing over unreliable RS232 channel
* Implemented Ack-Nack mechanism for XML communication between embedded panel and third-party telecommunication modem
* Implemented modules to operate Zwave dimmers and lights
* Worked on the development of AIO CPX portal using Python, HTML, JavaScript and Django
* Took part in setting up of environment for project development and testing tasks in Bugzilla
* Developed automation framework to test the Home Automation Climate Control and Security panel to send XML APIs to external cellular vendor.
* Performed feasible study on open source tools to test touch screen applications and come up with Automation framework for App UI validation.
* Worked on manual testing of Video Alarm monitoring system and took active part in installation of the product at the Customers’ premise as well as rolling out the required firmware specific to the customer’s DVR and generate the DVR plugin for the corresponding MAS Video solution.

**Tata Tele Services Ltd, Hyderabad India – Software Engineer (January 2010 – November 2012)**

**Project – IN-NOC (network operation center monitoring and support),**

**ESSTA – Retail Sales Management Application**

**Description:**

Tata Tele Services’ IN-NOC team is responsible for the maintenance, up and running status of the prepaid GSM, CDMA telecom network of the organization. Team has to resolve the network, application issues of all priority levels within their stipulated service level agreement timelines.

**Responsibilities:**

* Worked on various network related activities, which include database **migration and application server monitoring** tasks
* Developed python scripts to automate daily routines run by the network operations team
* Developed the new features in the existing HTML-CGI web portal
* Worked with **UNIX** operating system to perform regular tasks
* Performed the User Acceptance Testing on the change requests for Tata Tele Service’s corporate sales web application and various data services on hand-held devices that operate in the Tata’s 2g/3g **GSM and CDMA networks**
* Involved in development of webservices using SOAP for sending and getting data from external XML based requests
* Worked on **SQL** queries for implementing functions, packages, views and triggers
* Involved in creating unit/test regression framework for implementing code to new tasks
* Implemented the change requests in the existing ESSTA portal used by the company’s marketing team
* Designed and developed the **network node monitoring** application using Python, Django, HTML
* Involved in the rollout of **internal number portability** feature across TTSL GSM-CDMA network
* Involved in the rollout of **3G services** for the TTSL GSM network

**WIPRO Ltd, Delhi India – Software Engineer (May 2007 – January 2010)**

**Project --Aircel Postpaid Billing and Mediation**

**Description:**

Aircel postpaid billing and mediation application is used to fetch the call data records of all the postpaid customers and to process those for further verification and validation before final billing.

**Responsibilities:**

* Worked as an application support engineer in the postpaid billing and message processing systems of Aircel network which is a client to Wipro Ltd.
* Involved application development and support of Aircel’s corporate web application which was rolled out across multiple locations in India.
* Used **Java servlets** for developing the web application
* Involved in writing **SQL and Shell** scripts for managing regular tasks
* Worked on the database design that is used as the major backend for the Aircel’s web application
* Responsible for the maintenance of the running status of Aircel postpaid network