# Divakar S

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***Experience Summary:***

Over **7+ years** of experience as a Analysis, Design, Development, Management and Implementation of various stand-alone, client-server enterprise applications.

* Good experience of software development in Python (libraries used: libraries- Beautiful Soup, numpy, scipy, matplotlib, python-twitter, Pandas data frame, network, urllib2, MySQL dB for database connectivity) and IDEs – sublime text, Spyder, pycharm, emacs.
* Experience in **python, Django, Zope, Pyramid Framework**
* Experienced in developing web-based applications using **Python, Django, PHP, C++, XML, CSS, HTML, DHTML, JavaScript** and**JQuery ,MVC3 ,RESTful,RUBY ,AJAX**
* Experience in analyzing and handling large datasets using **Oracle Relational database 9g, 10g, 11g.**
* Have good knowledge on No-Sql databases like **Cassandra, Mongodb**.
* Good knowledge in maintaining various version controls systems such as **SVN**and **GIT**.
* Have good Knowledge of **Agile** Methodologies (Scrum).
* Good experience in **Shell Scripting, SQL Server, Unix and Linux, Open stock.**
* Expertise in Object-Oriented design and coding. Good knowledge of various Design Patterns and UML.
* Experienced in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers.
* Have good idea about development tools like**Bugzilla, Jira, Confluence, and Axosoft**.
* Knowledge of the software Development Life Cycle (**SDLC**), **Agile** and **Waterfall** Methodologies.
* Good understanding of **Django ORM** and **SqlAlchamy**
* Good knowledge of server **Apache Tomcat, Web logic**
* Understanding of Python best Practices (**PEP-8**)
* Well versed with design and development of presentation layer for web applications using technologies like **HTML, CSS,** and **JavaScrip**t.
* Experienced in requirement gathering, Use case development, Business Process flow, Business Process Modeling: extensively used UML to develop various use cases, class diagrams and sequence diagrams.
* Good idea about testing tools like **Bugzilla,** and**JIRA.**
* Maintained detailed documentation and architectural solutions in IT infrastructure and sales systems.
* Skilled in **debugging/troubleshooting issues** in complex applications.
* Experienced in Unit testing, Integration testing, User acceptance testing, Functional testing.
* Active Participation in **Full development life cycle** (requirements, design, architecture, development, testing).
* Extensive knowledge of J2EE Architecture (JSP, JDBC, Data Source, JNDI, JMS, Servlets,).
* Experience in working with different operating systems **Windows 98/NT/2000/XP/Vista/7/8, UNIX.**
* Expert in maintaining technical documentation for projects.
* Good analytical and problem solving skills and ability to work on own besides being a valuable and contributing team player.
* Excellent Interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in a team environment.

***Technical Skills:***

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| **Operating systems** | Windows, Linux Ubuntu |
| **Languages** | Java, C, C++, Python, R, Perl,Ruby |
| **Scripting languages** | CSS, AJAX, Java ScriptJQuery, PHP,Shell Scripting |
| **Analytics Tools** | JMP PRO, SAS, Tableau, UCI NET, NodeXL ,MVC3 |
| **Markup languages** | HTML, XML, JSON |
| **Servers** | Apache Tomcat, IBM Web sphere, open stock, RESTful web services |
| **Databases** | Oracle, My SQL, query languages: PL,SQL |
| **IDEs/ Tools** | Eclipse, Toad, Sublime text, Spyder |
| **Revision Controlling Systems** | CVS, Github |
| **Methodologies & tools** | Object Oriented Programming, UML, Agile Scrum |
| **MS office tools** | Microsoft Excel (Super user), Microsoft word, Microsoft PowerPoint, PPTPlex |

**Professional Experience:**

**Hughes Network, Germantown, MD** Jan 2015 – Present

**Sr.Python developer**

**Responsibilities:**

* Used **Django framework** for application development.
* Developed user interface using,**CSS, HTML, JavaScript and JQuery& Ruby on rails.**
* Assisted in reduction of cost and optimization of supplier selection for the **CRM** Applications.
* Ensured high quality data collection and maintaining the integrity of the data.
* Cleaned data and processed third party spending data into maneuverable deliverables within specific formats with Excel macros and python libraries.
* Used several python libraries like **wxPython**, **numPY** and **matPlotLib**.
* Was involved in environment, code installation as well as the **SVN** implementation.
* Build all database mapping classes using **Django** models and cassandra.
* Used **Pandas API** to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Designed and developed data management system using **MySQL**.
* Creating unit test/regression test framework for working/new code
* This project also used other technologies like **JQuery** for java script manipulations, **bootstrap** for the front-end **html** layout.
* Responsible for debugging and troubleshooting the web application.
* Developed, tested and debugged software tools utilized by clients and internal customers.
* Coded test programs and evaluated existing engineering processes.
* Designed and configured database and back end applications and programs.
* Performed research to explore and identify new technological platforms.
* Collaborated with internal teams to convert end user feedback into meaningful and improved solutions.
* Resolved ongoing problems and accurately documented progress of a project.

**Environment: Python 2.7, scipy, Pandas, Bugzilla, SVN, C++, Java, JQuery, MySQL, Linux, Eclipse, Shell Scripting, HTML5/CSS. Red hat Linux, Apache, RUBY, Cassandra**

**Western Digital Irvine, CA** Apr 2014 – Dec2014

**Sr.Python developer**

**Responsibilities:**

* Analysis and Design of application.
* Created UI using**Javascript and HTML5/CSS.**
* Developed and tested many features for dashboard using **Python, Bootstrap, CSS, and JavaScript.**
* Implemented business logic using **Python/Django.**
* Created backend database **T-SQL stored procedures** and **Jasper Reports.**
* Worked with millions of database records on a daily basis, finding common errors and bad data patterns and fixing them.
* Exported/Imported data between different data sources using **SQL Server** Management Studio.
* Maintained program libraries, users' manuals and technical documentation.
* Managed large datasets using **Panda data frames** and **MySQL**.
* Wrote and executed various MYSQL database queries from python using **Python-MySQL** connector and **MySQL dB** package.
* Thorough knowledge in various front end tools like HTML, DHTML,CSS, JavaScript, XML, JQuery, Angular JS, and AJAX
* Hands-on experience in writing and reviewing requirements, architecture documents, test plans, design documents, quality analysis and audits.
* Built various graphs for business decision-making using Python matplotlib library.
* Fetched twitter feeds for certain important keyword using python-twitter library.
* Used Python library **Beautiful Soup** for webscrapping.ss.
* Performed troubleshooting, fixed and deployed many Python bug fixes of the two main applications that were a main source of data for both customers and internal customer service team.
* Created most important Business Rules which are useful for the scope of project and needs of customers
* Build**SQL** queries for performing various CRUD operations like create, update, read and delete.
* Work with team of developers on python applications for RISK management.
* Taken part in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Used Pandas library for statistics Analysis.
* Created most important Business Rules which are useful for the scope of project and needs of customers.
* Designed the architecture of the hardware environments and methodology of the code
* Experienced in Agile Methodologies and SCRUM Process.
* Worked in development of applications especially in **UNIX** environment and familiar with all of its commands.
* Refactored existing project to make it more RESTful and thread-safe.
* Added unit tests and improved existing ones.
* Designed RESTful XML web service for handling AJAX requests.
* Created project designs utilizing MVC architecture components.

**Environment: Python 2.7, Django, HTML5/CSS,UNIX, MS SQL Server 2013, T-SQL, Jasper, Reports, JavaScript, Eclipse, Linux, Shell Scriptingo,RESTful,MVC3.**

**NewyorkTimes,NY.** Aug 2013 – March 2014

**Sr.Python developer**

**Responsibilities:**

* Analysis and Design of application.
* Created UI using**Javascript and HTML5/CSS.**
* Developed and tested many features for dashboard using **Python, Bootstrap, CSS, and JavaScript.**
* Implemented business logic using **Python/Django.**
* Created backend database **T-SQL stored procedures** and **Jasper Reports.**
* Worked with millions of database records on a daily basis, finding common errors and bad data patterns and fixing them.
* Exported/Imported data between different data sources using **SQL Server** Management Studio.
* Maintained program libraries, users' manuals and technical documentation.
* Managed large datasets using **Panda data frames** and **MySQL**.
* Wrote and executed various MYSQL database queries from python using **Python-MySQL** connector and **MySQL dB** package.
* Carried out various mathematical operations for calculation purpose using python libraries.
* Built various graphs for business decision-making using Python matplotlib library.
* Fetched twitter feeds for certain important keyword using python-twitter library.
* Used Python library **Beautiful Soup** for webscrapping.ss.
* Performed troubleshooting, fixed and deployed many Python bug fixes of the two main applications that were a main source of data for both customers and internal customer service team.
* Implement code in python to retrieve and manipulate data.
* Created most important Business Rules which are useful for the scope of project and needs of customers
* Build**SQL** queries for performing various CRUD operations like create, update, read and delete.

**Environment: Python 2.7, Django, HTML5/CSS, MS SQL Server 2013, T-SQL, Jasper Reports, Javascript, Eclipse, Linux, Shell Scripting.**

**Client: Terex Corporation, Westport, CT** Jun 2012 –Aug2013

**Sr. Full stack &Python Developer**

**Responsibilities:**

* Responsible for gathering requirements, system analysis, design, development, testing and deployment.
* Participated in the complete **SDLC** process.
* Developed user interface using **CSS, HTML, JavaScript and JQuery**.
* Wrote Python modules to extract/load asset data from the **MySQL** source database.
* Designed and implemented a dedicated **MYSQL** database server to drive the webapps and report on daily progress.
* Developed views and templates with **Python** and **Django’s**view controller and templating language to create a user-friendly website interface.
* Used **Django framework** for application development.
* Created entire application using **Python, Django, MySQL** and **Linux**.
* Enhanced existing automated solutions, such as the Inquiry Tool for automated Asset Department reporting and added new features and fixed bugs.
* Embedded AJAX in UI to update small portions of the web page avoiding the need to reload the entire page.
* Programming in Python as well as Perl
* Created most important Business Rules which are useful for the scope of project and needs of customers.
* Improved performance by using more modularized approach and using more in built methods.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Performed data manipulation/storage for incoming test data using lxml /etree libraries.
* Developed API modularizing existing python module with the help of pyyaml libraries.
* Wrote unit test cases for testing tools.
* Created database using **MySQL**, wrote several queries to extract/store data.
* Coded test programs and evaluated existing engineering processes.
* Designed and configured database and back end applications and programs.
* Performed research to explore and identify new technological platforms.
* Collaborated with internal teams to convert end user feedback into meaningful and improved solutions.

**Environment: Python 2.7, Django 1.4, Puppet Rspec, Jenkins, Grafana/Graphite, MySQL, Linux,**

**HTML, CSS, JQuery, JavaScript, Apache, Linux, Git, Perl, Cassandra.**

**Morrison’s Management, Atlanta,GA** April 2011 - May 2012

**Python Developer**

**Responsibilities:**

* Used **Django framework** for application development.
* Developed user interface using,**CSS, HTML, JavaScript and JQuery& Ruby on rails.**
* Assisted in reduction of cost and optimization of supplier selection for the **CRM** Applications.
* Ensured high quality data collection and maintaining the integrity of the data.
* Cleaned data and processed third party spending data into maneuverable deliverables within specific formats with Excel macros and python libraries.
* Used several python libraries like **wxPython**, **numPY** and **matPlotLib**.
* Involved in environment, code installation as well as the **SVN** implementation.
* Build all database mapping classes using **Django** models and cassandra.
* Used **Pandas API** to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Designed and developed data management system using **MySQL**.
* Creating unit test/regression test framework for working/new code
* This project also used other technologies like **JQuery** for java script manipulations, **bootstrap** for the front-end **html** layout.
* Responsible for debugging and troubleshooting the web application.
* Developed, tested and debugged software tools utilized by clients and internal customers.
* Coded test programs and evaluated existing engineering processes.
* Designed and configured database and back end applications and programs.
* Performed research to explore and identify new technological platforms.
* Collaborated with internal teams to convert end user feedback into meaningful and improved solutions.
* Resolved ongoing problems and accurately documented progress of a project.

**Environment: Python 2.7, scipy, Pandas, Bugzilla, SVN, C++, Java, JQuery, MySQL, Linux, Eclipse, Shell Scripting, HTML5/CSS. Red hat Linux, Apache, RUBY, Cassandra**

**Client: Sandisk, Bangalore, India** July 2009 - Feb 2011

**Python Developer**

**Responsibilities:**

* Developed entire frontend and backend modules using **Python on Django Web Framework**.
* Work with team of developers on python applications for RISK management.
* Designed and developed the UI of the website using **HTML, AJAX, CSS and JavaScript**
* Made Django web based apps for Insurance premium calculations.
* Generated property list for every application dynamically using Python.
* Creating unit test/regression test framework for working/new code.
* Using Subversion version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application
* Designed and developed data management system using MySQL.
* Rewrite existing Java, C++ application in Python.
* Designed the architecture of the hardware environments and methodology of the code.
* Experienced in Agile Methodologies and SCRUM Process.
* Involved in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Used Pandas library for statistical Analysis.
* Used Numpy for Numerical analysis for Insurance premium.
* Generated property list for every application dynamically using python.
* Handled all the client side validation using JavaScript.
* Creating unit test/regression test framework for working/new code.
* Build**SQL**,NOSQLqueries implementing functions, packages, views, triggers, and tables.
* Using Subversion version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application.
* Handling the day to day issues and fine tuning the applications for enhanced performance.
* Worked in development of applications especially in **UNIX** environment and familiar with all of its commands

**Environment: Python, Django 1.3, MySQL, Linux, HTML, XHTML, CSS, AJAX, JavaScript, and Apache Web Server,NO SQL.**

**Integrated Wireless Solutions, Chennai, India** May2008 - July 2009

**Web Developer**

**Responsibilities:**

* Performed requirement gathering, High level design.
* Created UI screens using HTML/CSS, ASP.NET.
* Installed and setup SQL Server 2008 in the new server.
* Designing backend T-SQL Stored Procedures
* Designed and developed user interactive interfaces.
* Created database triggers to implement complex business rules and automatic background processing.
* Created over 50 Jasper Reports and SSRS reports
* Using Subversion version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application
* Designed and developed data management system using **MySQL**.
* Rewrite existing Java, C++ application in Python.
* Designed the architecture of the hardware environments and methodology of the code.
* Experienced in Agile Methodologies and SCRUM Process.
* Involved in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Used Pandas library for statistical Analysis.
* Worked with **UNIX** like OS on regular basis.
* Creating SSIS Packages migration of data across different servers and Other Databases such as Oracle
* Used update strategy, lookups, stored procedures and filter.
* Studying the existing environment and accumulating the requirements by interacting with the clients on various aspects.
* Identification of various Data Sources and Development Environment.
* Responsible for running and maintaining business processes on daily / weekly / monthly basis.

***Environment: ASP.NET, MS SQL Server 2008,T-SQL, Jasper, SSRS, SQL Server DTS, MS Access, Windows NT/2000, Visio,RESTFUL,MVC***

**Education:**

* Bachelors in Electronics and Communication Engineering, JNTUA, INDIA.