Ishwarachandra Gowtham

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SUMMARY   Software Developer with over **12.5 years** of total experience in software development and design, looking for a challenging **technical** role in a software product development company.

TECHNICAL SKILLS

- *Platform:* UNIX, Linux
- *Languages:* Well versed with Python, Java, PL/SQL, SQL, C, Perl and Shell scripting. Familiar with Django, C++, HTML, XML and PHP.
- *Database:* Oracle and MySQL
- *Tools:* Git, OpenStack, GitLab, JIRA, Confluence, Docker, Vagrant, Puppet, vim, gdb, SVN, Code Collaborator

WORK EXPERIENCE

Sandvine Technologies, Bangalore *(Senior Software Developer)*   *Nov 2017-Present*

Working as a Developer for the lab infrastructure team, which designs and develops **Python** based automation framework for QA and lab systems.

Responsibilities:

- Enhance components of QA automation framework using **Python** (**pytest**) by making use of concepts like **context managers**, **metaclass**, **generators**, decorators, fixtures, hooks, etc.
- Enhance the lab systems automation framework using *Django* by providing **REST** APIs for querying certain database tables.

Oracle India Development Center, Bangalore *(Senior Member of Technical Staff)*   *Mar 2015-Nov 2017*

Worked as a Developer and SME for a high performance in-memory database named COMCOL. This database has a strong networking component and supports various tiered topologies and high availability (HA).

Accomplishments:

- Enhanced and maintained core product modules using **C++**.
- Perform **official builds** for the COMCOL product.
- Troubleshoot customer reported problems, find root cause and provide resolution.
- Enhanced the **Docker** based **containerized** development environment.

Worked as a Developer and Scrum Master for the Platform Automation team which provided **SaaS** (**cloud** based) applications for functional test automation for *Oracle CGBU Signaling Platform*, by using **Agile** methods, continuous integration, dynamic languages, open source software and **DevOps** principles to maximize automated platform testing..

Accomplishments:

- Developed various **Puppet** modules including one for automatic replication of database using a master-slave setup.
- Created provisioning scripts using **Vagrant** for creating local development environments (**virtual machines**).
- Developed CLI commands for running a set of sub-commands in **PHP** (using *Symfony framework* provided Console Command component) and enhanced core backend modules in PHP (using *Zend framework*).
- Enhanced Continuous Integration (**CI**) scripts using **Python**.
- As a **Scrum Master**, ran **Sprints** and **Kanban** based on the type of the user stories.

Relecura (*formerly* **INDUS TechInnovations**)**,** Bangalore *(Senior Systems Engineer)*   *Dec 2013-Jul 2014*

Worked as a Developer for the *term-extractor* team, which is responsible for all the server-side technology for **Relecura** (Relecura is an analytics and IP (Intellectual Property) Intelligence platform).

Accomplishments:

- Designed and developed modules in **Java** to **parse and extract patent related information** using *JDOM2*, *Apache PDFBox*, Apache POI, etc. and load them into MySQL tables using **JDBC**.
- The format of the XML files containing patent related information either follows couple of industry standards or is proprietary. Designed and developed a module in **Java** to parse and extract patent related information from the XML files irrespective of the format, which included making use of the **Java Reflection API**.

Thomson Reuters, Bangalore *(Technical Lead, Software Engineer)*   *Mar 2008-Dec 2013*

Worked as a Technical Lead and Developer for the Thomson Reuters IP&Science MIS team (*Global Turnkey Systems*).

Accomplishments:

- Reduced the risk to the business by successfully leading an effort to **re-engineer** and **re-platform** a manually run legacy 4GL (written using Informix 4GL) product usage and revenue reporting application (used to report multi-million dollar revenue) to use a combination of **PL/SQL**, **Perl** and **Shell scripts** with **Oracle 11g** as the database. Improved the performance considerably by reducing the application run time from 2-3 man days to under an hour by fully automating it.

- Rewrote a legacy text based UI application used by the business users to correct and validate revenue data to a desktop application using **Java FX** interacting with **EJBs** (deployed on the Glassfish server) backed by **PL/SQL** stored procedures (on the Oracle 11g database).
- Designed and developed a module using **Java** and **shell script** for an *online document repository* application for performing **on-demand indexing** of the folders and files, in case the **Lucene index** is broken due to manual tampering of the folder and files. The module would re-enable the search functionality.
- Designed and developed complex search routines using **PL/SQL** making use of **dynamic query building** and **ref cursors** for searching contracts, orders, customer records and items.
- Designed and developed a **SOAP** based **web services client** in **PL/SQL** by making use of *UTL_HTTP* package for getting real-time tax information from *Sabrix* for use with *techstreet.com* (a sub-division of Thomson Reuters).
- Designed and developed modules for interacting with external systems responsible for credits and collections (GETPAID). They make use of **Oracle Job Chaining and Scheduler**. The core business logic was developed using a combination of **PL/SQL**, **Perl** and **shell scripts**.
- Designed and developed modules in **PL/SQL** for **data analysis**, **data validation**, **data correction** and **data extraction** of existing data present in the *Global Turnkey Systems* for migrating into SAP. The feed also sent an automated mail containing a CSV file attachment to the business users for data verification.
- Designed and developed modules in **PL/SQL** for **projecting the revenue and expense of the IP&Science business** up until December 2016, based on the revenue and expense for June 2012.
- Designed and developed modules for searching, creating and modifying customer records using **JSF 2.0 (Apache Trinidad MyFaces** and **EclipseLink JPA)**.

Hewlett Packard India Software Operations (STSD), Bangalore *(Systems Software Engineer)*   ***May 2006-Jan 2008***
Worked as a Developer for the **HP OpenView TeMIP** Fault and Trouble Management (*FTM*) team (*TeMIP* is an OSS product) and the **HP OpenView Microsoft Smart Plug-ins** team (*Smart Plug-ins* or *SPI* are pre-configured software modules that plug into the *HP Operations Manager* to help an enterprise maintain the availability and performance of their distributed IT infrastructure).
Accomplishments:
- Enhanced and maintained modules related to *Fault and Trouble Management* (FTM) using **C++** and **C**.
- **Ported** existing Fault and Trouble Management (FTM) modules from **Solaris** to **Linux**.
- Enhanced and maintained modules related to *MS Exchange SPI* and *MS Active Directory SPI* using **C++**.
- Designed and developed an UNIX based **command line interface** using **C++** for editing and deploying an XML file containing monitoring parameters for *MS Exchange Server* to various OpenView server managed nodes (machines). The command line interface also supported version control mechanism of the XML file.

Thomson Financial, Bangalore *(Software Engineer)*   ***Feb 2005-May 2006***
Worked as a Developer for the *SDC Securities* team.
Accomplishments:
- Enhanced and maintained the backend modules using **C.** The backend modules contain the core business rules which are applied to the raw data received from the data entry and incoming data feeds.
- Designed and developed a number of **securities data feeds** (information related to M&A, New Issues, etc.) containing huge amounts of data using a combination of **PL/SQL**, **Perl** and **shell scripts** for various high profile Investment Banks and Financial firms worldwide.

EDUCATION
B.E., Computer Science (67%)   *2000-2004*
Dayananda Sagar College of Engineering, Bangalore, affiliated to Visvesvaraya Technological University (VTU), Belgaum

Diploma, Computer Science and Engineering (64.6%)   *1997-2000*
K.I.E.T. Polytechnic, Bangalore, affiliated to Department Of Technical Education, Govt. of Karnataka

MISCELLANEOUS ACHIEVEMENTS
- Oracle FY18 Equity Award for various contributions to the COMCOL product   Jun 2017
- Oracle Special Recognition Award for successfully completing a release ahead of the schedule   Sep 2015
- Thomson Reuters MIS Philadelphia Award for work related to GETPAID Extracts   Aug 2009
- Thomson Reuters Markets MIS Award for various contributions to the Global Turnkey Systems   Mar 2009
- Hewlett-Packard Award For Excellence for contribution to testing MS SPI for Exchange 2007   Jun 2007

REFERENCES
- James Rhew, Senior Developer, Oracle Corp., Morrisville [james.rhew@oracle.com]
- Venkatramanan Viswanathan, Sr. Director at Clarivate Analytics, Philadelphia [ramanan.venkat.v@gmail.com]