

Ishwarachandra Gowtham

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SUMMARY Software Developer with over **11 years** of total experience in software development and design, looking for a challenging **technical** role in a software product development company.

TECHNICAL SKILLS

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

WORK EXPERIENCE

Oracle India Development Center, Bangalore (*Senior Member of Technical Staff*)

Mar 2015-Present

Working as a Developer as part of the team which develops a high performance in-memory database named COMCOL. This database has a strong networking component along with core communication libraries and supports various tiered topologies and high availability.

Responsibilities:

- Enhance the containerized development environment using **Docker**.
- Enhance and maintain the SOAP and SNMP modules using **C++** along with addressing customer issues.

Worked as a Developer and Scrum Master for the Design Verification Platform Automation team which provided **SaaS** based applications for functional test automation for *Oracle CGBU Signaling Platform*, by making use of **Agile** software methodologies and **DevOps** concepts.

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 VMs (virtual machines).
- Developed CLI commands for running a set of sub-commands in PHP using **Symfony framework** provided Console Command component. Also enhanced core backend modules using **Zend framework** and **Doctrine ORM**.
- 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](#) (an online Patent and Portfolio Analysis product).

Accomplishments:

- Designed and developed modules in **Java** to **parse and extract patent related information** from XML files (using *JDOM2*) and PDF documents (using *Apache PDFBox*) 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**.
- Designed and developed modules in **Java** to allow users to **export search results along with images to an Excel spreadsheet** (using *Apache POI*). This also included developing algorithms for resizing the image to fit into Excel cell.
- Designed and developed wrapper modules in **Java** on top of **third-party API calls** for downloading patent data from URLs, which require handling dynamic access-token generation and time-out functionalities.

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:

- Successfully lead an effort to **re-engineer** and **re-platform** a manually run legacy 4GL (written using Informix 4GL) product usage and revenue reporting application into a fully automated application using a combination of **PL/SQL**, **Perl** and **Shell scripts** with **Oracle 11g** as the database. The application runtime was reduced from 2-3 man-days to under an hour.
- 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 (Get Paid). 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)**.
- Designed and developed web based reporting applications for the CFO's use using a combination of **Java, PL/SQL, Eclipse BIRT** and **Japer Reports** (used as part of *Spring MVC*).

Hewlett Packard India Software Operations (STSD), Bangalore (*Systems Software Engineer*)

May 2006-Jan 2008

Accomplishments:

As a Developer in the **HP OpenView TeMIP** Fault and Trouble Management (*FTM*) team (*TeMIP* is an OSS product):

- **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**.

As a Developer in 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):

- Designed and developed an UNIX based **command line interface** using **C++** for editing and deploying an XML file containing monitoring definitions to various OpenView server managed nodes (machines). The command line interface also supported version control mechanism of the XML file.
- Enhanced and maintained modules related to *MS Exchange SPI* and *MS Active Directory SPI* using **C++**.

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 containing the core business rules which are applied to the raw data received from the data entry and data feeds using **C**.
- Designed and developed a number of **large data feeds** using a combination of **PL/SQL, Perl** and **shell scripts** to ingest the data into the SDC world.
- Designed and developed an automated application for retrieving and processing a text file of size more than 2GB having no line breaks from an FTP site, process the file contents, generate appropriate record information and load the information into the **Oracle** database. The application was developed using a combination of **Perl, SQL*Loader, PL/SQL** and **shell scripts**.

EDUCATION

B.E., Computer Science (67%)

2000-2004

Dayananda Sagar College of Engineering, Bangalore
Visvesvaraya Technological University (VTU), Belgaum

Diploma, Computer Science and Engineering (64.6%)

1997-2000

K.I.E.T. Polytechnic, Bangalore
Department Of Technical Education, Govt. of Karnataka

MISCELLANEOUS ACHIEVEMENTS

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

REFERENCES

- Venkatramanan Viswanathan, Director at Clarivate Analytics, Philadelphia [venkat.viswanathan@thomsonreuters.com]
- James Rhew, Senior Developer, Oracle Corp., Morrisville [james.rhew@oracle.com]