Ishwarachandra Gowtham

#1098/1204, 1st 'E' Main, 8th Cross, Girinagar 2nd Phase, Bangalore - 560085 | *+91*-9945755688 *+91-80*-26725411 | ic.gowtham@gmail.com

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 PHP, Python, HTML, XML
- *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 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, maintain the SOAP and SNMP communication modules using **C++** and resolve related customer queries.

Worked as part of Design Verification Platform Automation team, which utilizes **Agile** software methodologies along with **DevOps** concepts for delivering **SaaS** based applications for functional test automation for Oracle CGBU Signaling Platform.
Responsibilities:

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

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

Worked as part of the *term-extractor* team, which is responsible for all the server-side technology for **Relecura** ([Relecura](#) is an online Patent and Portfolio Analysis product).
Responsibilities:

- 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**.
- XML files containing patent related information, in terms of formats, either follow couple of industry standards or are proprietary. Designed and developed a module in **Java** to parse and extract information from the XML files containing patent information 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.
- Developed SOAP based web service clients in **Java** using *Apache Axis* to **consume web services** from government patent sites of some countries.

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

Worked as part of the Thomson Reuters IP&Science MIS team (*Global Turnkey Systems*).
Responsibilities:

- Successfully lead an effort to **re-engineer** and **re-platform** a manually run legacy 4GL product usage and revenue reporting application. The legacy application was written using Informix 4GL with Informix as the database. Rewrote and fully automated the application using a combination of **Oracle 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. The application also had couple of text based UI applications which were used by the business users to correct and validate the data. These applications were converted to a desktop application using **Java FX** interacting with **EJBs** (deployed on the Glassfish server) and **Oracle 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. Also, designed and developed a user-authentication layer using **Java** and *Apache Derby DB* for the same online document repository application.

- Designed and developed an **Oracle PL/SQL web services client** using *UTL_HTTP* for getting real-time tax related information for use with *techstreet.com* (a sub-division of Thomson Reuters).
- Designed and developed web based reporting applications for the CFO's use using a combination of **Java**, **Oracle PL/SQL**, **Eclipse BIRT** and **Japer Reports** (used as part of *Spring MVC*).
- Designed and developed modules for searching, creating and modifying customer records using **JSF 2.0 (Apache Trinidad MyFaces)** and **EclipseLink JPA**.
- Designed and developed search routines using **Oracle PL/SQL** making use of **dynamic query building** and **ref cursors** for searching contracts, orders, customer records and items.
- 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 **Oracle PL/SQL**, **Perl** and **shell scripts**.
- Designed and developed modules in **Oracle 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 **Oracle 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 a number of **data feeds** using a combination of **C**, **Oracle PL/SQL**, **Java**, **Perl** and **shell scripts**.

Hewlett Packard India Software Operations (STSD), Bangalore *(Systems Software Engineer)*   *May 2006-Jan 2008*
Responsibilities:
As part of 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 part of 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 part of the SDC Securities team.
Responsibilities:
- Migrated SDC backend modules from Thomson Financial, US, enhanced and maintained them using **C**.
- Designed and developed a number of **large data feeds** using a combination of **Oracle PL/SQL**, **Perl** and **shell scripts** to ingest the data into the SDC world.
- Designed and developed an application for retrieving and processing a text file of size more than 2GB having no line breaks. The application was designed to automatically retrieve the file 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**, **Oracle 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, India
Department Of Technical Education, Govt. of Karnataka

MISCELLANEOUS ACHIEVEMENTS
- 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 Thomson Reuters, Philadelphia [venkat.viswanathan@thomsonreuters.com]
- James Rhew, Senior Developer, Oracle Corp., Morrisville [james.rhew@oracle.com]