

# Ishwarachandra Gowtham

#1098/1204, 1<sup>st</sup> 'E' Main, 8<sup>th</sup> Cross, Girinagar 2<sup>nd</sup> Phase, Bangalore - 560085 | +91-98863-52938 | ic.gowtham@gmail.com

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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, Docker, Vagrant, Puppet, GitLab, JIRA, Confluence, 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 test automation and lab systems.

*Responsibilities:*

- Enhance the **Python (pytest)** based QA automation framework by making use of concepts like **context-manager**, **metaclass**, **generators**, **traits**, decorators, fixtures, hooks, etc. Also create modules to check code compliance, code coverage, etc., as part of enhancing the **CI** (continuous integration).
- Enhance the lab systems automation framework using **Django** by providing **REST APIs** for adding and retrieving data from 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++**.
- Enhanced the **Docker** based **containerized** development environment.
- Performed **official builds** for the COMCOL product.
- Troubleshoot customer reported problems, find root cause and provide resolution.

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 **CI** (continuous integration) 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 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**

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