

# Ishwarachandra Gowtham

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**SUMMARY** Hands-on Software Developer with over **15 years** of diverse 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, Flask, SQL, PL/SQL and Shell scripting. Familiar with Java, Quart, Django, Angular JS, JSON, YAML, HTML, XML, C++, C and Perl.
- **Database:** Oracle, InfluxDB, Postgres, MongoDB, etcd and MySQL
- **Tools:** Git, Kubernetes, Docker, OpenStack, AWS, Azure, Redis, Jira, Confluence, vim, gdb

## WORK EXPERIENCE

**Affirmed Networks**, Bangalore (*Principal Software Engineer*)

*Jul 2019-Present*

Leading the tools and automation team, which designs and develops **Python** based automation frameworks and tools for enabling various teams at Affirmed.

*Responsibilities and accomplishments:*

- Built a 4-member team and introduced **Agile methodologies**.
- Develop microservices using **Flask** and **Quart** to simulate applications on **Kubernetes** to help with testing and development.
- Design and develop several **Python** based tools and automation frameworks by making use of concepts like **meta-programming, context-manager, generators, decorators**, etc.
- Designed and developed automation frameworks using **Cisco pyATS** for running tests on **Kubernetes** cluster.

**Sandvine Technologies**, Bangalore (*Senior Software Developer*)

*Nov 2017-Jul 2019*

Worked as a Developer for the global tools team, which designs and develops **Python** based tools and automation frameworks for enabling R&D and test organizations at Sandvine.

*Accomplishments:*

- Designed and developed a *full-stack web application* for **analytics** using **Python, Flask, InfluxDB** and **AngularJS** for **analyzing** product performance test run data by imbibing **data science** concepts.
- Enhanced the **Python** based QA automation framework by making use of concepts like **meta-programming, context-manager, generators, decorators, traits, pytest fixtures** and **hooks**, etc. Also developed modules as part of fully automating the **continuous integration (CI)** system.
- Enhanced 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++**.
  - Troubleshoot customer reported problems by finding the 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**).
- 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 **mine** and **analyze 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.
- Designed and developed 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) for replacing a set of legacy text based UI applications used by the business users to correct and validate revenue data.
- Designed and developed several complex search routines using **PL/SQL** by making use of **dynamic query building** and **ref cursors** for searching contracts, orders, customer records and items.
- Designed and developed an application in **PL/SQL** for **data analysis**, **data validation**, **data correction** and **data extraction** of existing data in the *Global Turnkey Systems* for easier migration into SAP.
- 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 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 an application for interacting with external systems responsible for credits and collections (GETPAID). The application was designed to 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 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**.
- 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. 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

- *Affirmed Extra Effort Award* for mentoring and leading the tools and automation team Jan 2020
- *Sandvine iPerfRobo Award* for contributions to the PerfRobo framework development Mar 2019
- *Oracle Special Recognition Award* for successfully completing a release ahead of the schedule Sep 2015
- *Thomson Reuters MIS Award* for various contributions to the Global Turnkey Systems Mar 2009
- *Hewlett-Packard e-Award* for contribution to MS SPI for Exchange 2007 Jun 2007

## REFERENCES

- Venkat Viswanathan, Program Architect, Salesforce.com, Philadelphia [ramanan.venkat.v@gmail.com]
- James Rhew, Senior Developer, Oracle Corp., Morrisville [james@rhew.org]