

PERSONAL INFORMATION

Ishwarachandra Gowtham

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POSITION

Software Professional

WORK EXPERIENCE

09/11/2017–Present

Senior Software Developer

Sandvine Technologies, Bangalore (India)

- Enhance the Python based QA automation framework by making use of concepts like meta-programming, context-manager, generators, decorators, pytest fixtures and hooks, etc. Also create modules as part of fully automating CI (continuous integration).
- Enhance the lab systems automation framework using Django by providing REST APIs for adding and retrieving data from database tables.
- Design and develop Python modules and APIs using traits to replicate the behavior of Spirent Landslide GUI as part of replacing the legacy TCL infrastructure.

05/03/2015–08/11/2017

Senior Member Of Technical Staff

Oracle India Development Centre, Bangalore (India)

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 and performed official builds for the COMCOL product.
- 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).
- 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.

30/12/2013–31/07/2014

Senior Systems Engineer

Relecura, Bangalore (India)

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.

24/03/2008–20/12/2013 **Technical Lead**

Thomson Reuters, Bangalore (India)

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 an application in Java for performing on-demand indexing of the folders and files for an online document repository application on top of Lucene.
- 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 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 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. The application would also automatically send a notification 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).

29/05/2006–17/01/2008 **Systems Software Engineer II**

Hewlett-Packard, Bangalore (India)

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

Curriculum vitae

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.

28/02/2005–23/05/2006

Software Engineer

Thomson Financial, Bangalore (India)

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 data using a combination of PL/SQL, Perl and shell scripts for various high profile Investment Banks and Financial firms worldwide.

EDUCATION AND TRAINING

01/10/2000–30/06/2004

Bachelors Of Engineering in Computer Science

Dayananda Sagar College Of Engineering, Bangalore (India)

01/08/1997–30/07/2000

Diploma in Computer Science And Engineering

K.I.E.T. Polytechnic, Bangalore (India)

PERSONAL SKILLS

Mother tongue(s)

Kannada

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related 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