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

Microsoft Corporation, Bangalore *(Software Engineer 2)*   *Nov 2020-Present*
Microsoft acquired Affirmed Networks. Continuing with the same role as in Affirmed Networks.

Affirmed Networks, Bangalore *(Principal Software Engineer)*   *Jul 2019-Oct 2020*
Leading the tools and automation team, responsible for designing and developing **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 *Python*, *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.

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.
- 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). The new applications were developed using **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 (Oracle 11g) 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** for easier migration of data from *Global Turnkey Systems* 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 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**, **PL/SQL**, **Perl** and **shell scripts**.

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.

Thomson Financial, Bangalore *(Software Engineer)*   *Feb 2005-May 2006*

Worked as a Developer for the *SDC Securities* team.

Accomplishments:

- 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.
- 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.

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 enabling QA and Dev teams with the right tools.   Oct 2020
- *Affirmed Key Contributor Award* for contributing to LI microservice delivery   Jul 2020
- *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 Achievement Award* for various contributions to the Global Turnkey Systems   Aug 2009
- *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]