

Ishwarachandra Gowtham

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SUMMARY Hands-on software developer with over **16 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 3, Flask, SQL, and Shell scripting.
Familiar with Quart, Django, Fast API, React JS, Angular JS, Java, HTML, C++, C, PL/SQL, and Perl.
- **Database:** Oracle, Postgres, InfluxDB and MySQL
- **Tools:** Git, Docker, Kubernetes, OpenStack, Azure, Jira, Confluence, vim, debuggers, etc.

WORK EXPERIENCE

Microsoft Corporation, Bangalore (*Software Engineer 2*)

Jul 2019-Present

- Previously worked as *Principal Software Engineer* at **Affirmed Networks**, Bangalore, from *July 2019 till October 2020*.
- Microsoft **acquired** Affirmed Networks in March 2020.

Leading the tools and automation team, responsible for designing and developing **Python** based **microservices**, **tool applications**, **simulators** and automation **frameworks** for enabling various teams.

Responsibilities and accomplishments:

- Design and develop **tool microservices** (**REST APIs**, server applications, etc.) using *Python*, *Flask*, *Sanic* and *Quart* to run on **Kubernetes** to help with development and testing.
- Design and develop **Python** based **automation frameworks** and **tool applications** by making use of concepts like **meta-programming**, **context-manager**, **generators**, **decorators**, etc.
- Designed and developed a *full-stack web application* for analyzing and detecting applications from a packet capture (PCAP) file using *Python*, *Flask* and *ReactJS*.
- Built a 4-member team and introduced **Agile methodologies**.
- Provide technical leadership and mentor junior team members.

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 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 API framework built 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 **Scrum Master** oversaw **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)

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 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 large datasets 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

Bachelor of Engineering, 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

- Microsoft/Affirmed Spot Awards for various contributions – Jan 2020, Jul 2020, Oct 2020, Jan 2021, Jul 2021, and Nov 2021.
- *Sandvine iPerfRobo Award* for contributions to the PerfRobo framework development – Mar 2019.
- *Oracle Special Recognition Award* for various contributions – Sep 2015.
- Thomson Reuters Spot Awards for various contributions to the Global Turnkey Systems – Mar 2009 and Aug 2009.
- *Hewlett-Packard e-Award* for contribution to MS SPI for Exchange 2007 – Jun 2007.
- Microsoft Hackathon 2021 Participant.
- Sandvine 2018 Hackathon winning team member.

REFERENCES

- Suneel Shankar, Staff Engineer, Broadcom, Waterloo, Canada [suneels@gmail.com]
- Venkat Viswanathan, Senior Technical Architect, Salesforce.com, Philadelphia, USA [ramanan.venkat.v@gmail.com]