

# 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** 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]