

PERSONAL INFORMATION

Ishwarachandra Gowtham

📍 No. 1098/1204, 1st 'E' Main, 8th Cross, Girinagar 2nd Phase, 560085 Bangalore (India)

☎ +91-9886352938

✉ ic.gowtham@gmail.com

POSITION

Software Engineer

WORK EXPERIENCE

01/11/2020–Present

Software Engineer 2

Microsoft R&D, Bangalore (India)

Microsoft acquired Affirmed Networks in March 2020. Continuing with the same role as with Affirmed Networks.

29/07/2019–31/10/2020

Principal Software Engineer

Affirmed Networks, Bangalore (India)

- Built a 4-member team and introduced **Agile methodologies**.
- Leading the tools and automation team.
- Design and develop microservices using **Python, Flask** and **Quart** to simulate applications on **Kubernetes** to help with testing and development.
- Design and develop **Python** based tools and automation framework by making use of concepts like **meta-programming, context-manager, generators, decorators**, etc.

09/11/2017–23/07/2019

Senior Software Developer

Sandvine Technologies, Bangalore (India)

- Design and develop a **full-stack web application** for **analytics** using **Python, Flask, InfluxDB** and **AngularJS** for analysing product performance test run data.
- 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.
- Designed and developed Python modules and APIs using traits to replicate the behaviour 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).

- 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 Signalling Platform, by using Agile methods, continuous integration, dynamic languages, open-source software and **DevOps** principles to maximize automated platform testing.

- 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 **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).

- Designed and developed modules in **Java** to **mine and analyse 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).

- 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.
- 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 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 I

Curriculum vitae

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).

- 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 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.

- Enhanced and maintained the backend modules using the **C** language. 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 several 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

Bachelor of Engineering (B.E.) 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, Flask, SQL, PL/SQL and Shell scripting. Familiar with Java, Quart, Django, React JS, AngularJS, HTML, XML, C++, C, Perl and PHP.
- Database: Oracle, Influx DB, Postgres, MongoDB, etcd and MySQL
- Tools: Git, GitLab, OpenStack, AWS, Azure, Docker, Redis, JIRA, Confluence, vim, gdb, Code Collaborator

AWARDS

October 2020	Affirmed Extra Effort Award For enabling QA and Dev teams with developing and providing the right set of tools.
July 2020	Affirmed Key Contributor Award For contributing to LI (Lawful Interception) microservice delivery.
January 2020	Affirmed Extra Effort Award For leading and mentoring the tools and automation team.
March 2019	Sandvine iPerfRobo Award For contributions towards PerfRobo (performance) framework development.
September 2015	Oracle Special Recognition Award For successfully completing a release ahead of the schedule and providing technical leadership.
August 2009	Thomson Reuters Achievement Award For various contributions towards Global Turnkey Systems.
March 2009	Thomson Reuters MIS Award For various contributions towards Global Turnkey Systems.
June 2007	Hewlett-Packard e-Award For contributions towards testing MS SPI for Exchange 2007.