

# Ishwarachandra Gowtham

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**SUMMARY** Seasoned Software professional with more than **19 years** of 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, FastAPI, Flask**, SQL, and Shell scripting. Familiar with Django, Java, and HTML.
- **Database:** Oracle, Postgres, MemSQL and MySQL
- **Tools:** Git, GitHub, Docker, Kubernetes, Azure, Jira, Confluence, vim, debuggers, etc.

## WORK EXPERIENCE

**EOG Resources** (through FirstLight Consulting), Remote (*Software Consultant*) **Nov 2023-Present**  
Part of the Economics and Planning team providing various applications for reservoir and other field engineers.

*Accomplishments:*

- As a critical liaison between database and UI, developed **REST API** service layer using **Python, FastAPI, Pydantic** and related technologies.
- Considerably improved user engagement time with new application features by developing proof of concepts, etc.

**Sophos Technologies**, Bangalore (*Senior Software Engineer 2*) **May 2022-Aug 2023**  
Part of the **DevOps** team responsible for implementing **CI/CD** pipeline for various microservices for next generation products.

*Accomplishments:*

- Significantly reduced **CI/CD** on-boarding time for new microservices by creating and enhancing **GitHub Actions reusable workflows** and designing and developing a **GitHub App** with **Python** backend application to manage self-hosted runners and runner groups.
- Helped to enforce code quality gates in the **CI** pipeline by developing **Python** applications to interact with BlackDuck and SonarQube API.

**Microsoft Corporation**, Bangalore (*Software Engineer 2*) **Jul 2019-Apr 2022**  
• Previously worked as **Principal Software Engineer** at **Affirmed Networks**, Bangalore, from **July 2019 till October 2020**.  
• Microsoft **acquired** Affirmed Networks in March 2020.

Successfully led a team responsible for designing and developing **Python** based **microservices**, **tool applications**, simulators, and **frameworks** for enabling various teams.

*Accomplishments:*

- Was critical for the development and testing teams in meeting tight deadlines by designing and developing **tool microservices** (**REST APIs**, server applications, etc.) using **Python, Flask, Sanic**, and **Quart** to run on **Kubernetes**.
- Significantly reduced manual efforts by designing and developing **Python** based **frameworks** and **tool applications** by making use of concepts like **meta-programming**, **context-manager**, **generators**, **decorators**, **OOP** concepts and **SOLID** principles.
- Helped development and sales teams to quickly identify applications by designing and developing 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, introduced **Agile methodologies**, provided technical leadership and mentored 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:*

- Helped teams visualize and analyze product performance test run data by designing and developing a *full-stack web application* for **analytics** using **Python, Flask, InfluxDB** and **AngularJS** by imbibing **data science** concepts.
- Heavily contributed to the enhancements of 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.
- Significantly 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.
- 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.

**Relecurea** (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 **Relecurea** (Relecurea is an analytics and IP (Intellectual Property) Intelligence platform).

*Accomplishments:*

- Designed and developed modules in **Java** to **mine** and **analyze patent related information** using the **Java Reflection API**, **JDOM2**, **Apache PDFBox**, **Apache POI**, etc. and load them into MySQL tables using **JDBC**.

**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 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.
- Replaced a set of legacy text-based UI applications used by the business users to correct and validate revenue data by designing and developing a desktop application using **Java FX** interacting with **EJBs**, backed by **PL/SQL** stored procedures (Oracle 11g).
- Improved search performance for a web application by designing and developing 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.
- Reduced and improved data migration efforts from *Global Turnkey Systems* into SAP by designing and developing an application in **PL/SQL** for **data analysis**, **data validation**, **data correction** and **data extraction**.

**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*) and the **HP OpenView Microsoft Smart Plug-ins (SPI)**.

*Accomplishments:*

- Enhanced and maintained modules related to *Fault and Trouble Management (FTM)*, *MS Exchange SPI* and *MS Active Directory SPI* using **C++**.

**Thomson Financial**, Bangalore (*Software Engineer*)

**Feb 2005-May 2006**

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

*Accomplishments:*

- Designed and developed several securities **data feeds** (information related to M&A, New Issues, etc.) containing huge 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.
- Part of the Sandvine 2018 Hackathon winning team and Microsoft Hackathon 2021 Participant.