Ishwarachandra Gowtham

#293, 1st Floor, Aralu Mallige Parthasarathi Road, Girinagar, Bangalore - 560085 | *+91-98863-52938* | ic.gowtham@gmail.com

SUMMARY   Hands-on 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 *(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**, etc.
- 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 API**s 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.

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 the **Java Reflection API**, *JDOM2*, *Apache PDFBox*, *Apache POI*, etc. and load them into MySQL tables using **JDB**C.

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.