Ishwarachandra Gowtham

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SUMMARY   Hands-on software developer with close to **18 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, GitHub, Docker, Kubernetes, OpenStack, Azure, Jira, Confluence, vim, debuggers, etc.

WORK EXPERIENCE

Sophos Technologies, Bangalore *(Senior Software Engineer 2)*   **May 2022-Present**
Working for the Paloma **DevOps** team which is responsible for implementing **CI/CD** pipeline for various microservices.
Responsibilities and accomplishments:

- Work on creating and enhancing **GitHub Actions reusable workflows** to implement various stages in the **CI/CD** pipeline.
- Developed **GitHub App** with Python backend application to manage self-hosted runners and runner groups.
- Develop **Python** applications to interact with BlackDuck and SonarQube to enforce code quality gates in **CI** pipeline.
- Perform proof of concept studies on various tools like Argo CD, Spinnaker, etc.

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.

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

- Designed and developed **tool microservices** (**REST APIs**, server applications, etc.) using *Python*, *Flask, Sanic,* and *Quart* to run on *Kubernetes* to help with development and testing.
- Designed and developed **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*.
- 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:

- 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 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.

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**.
- Designed and developed a module in **Java** to parse and extract patent related information from the XML files irrespective of the format (industry standard or proprietary), 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**, 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 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), _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 several 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.