

Ishwarachandra Gowtham

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Professional Summary

Seasoned Software Engineer having over **19 years** of overall experience with expertise in **Python** development, **microservices** architecture, cloud-native solutions (**Docker, Kubernetes**), and DevOps automation. Demonstrated success in:

- Designing scalable **REST APIs** using **Python (FastAPI, Flask)**.
 - Leading **Agile** teams and optimizing **CI/CD** pipelines (**GitHub Actions**).
 - **Automating** processes to reduce manual effort by **30-50%**.
 - Delivering solutions for top-tier companies including **Microsoft, Sophos, Oracle, Thomson Reuters**.
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Technical Skills

- **Languages:** Python (FastAPI, Flask), SQL, Shell Scripting, Java
 - **Cloud & DevOps:** Docker, Kubernetes, GitHub Actions, CI/CD Pipelines
 - **Databases:** Oracle, PostgreSQL, MySQL
 - **Tools:** Git, GitHub, vim, PyCharm, Jira, Confluence, gdb
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Professional Experience

EOG Resources (via FirstLight Consulting) | Software Consultant | Nov 2023 - Apr 2025

- Designed and implemented **REST API** service layer (**Python, FastAPI, Pydantic**), bridging database and UI to enhance data access for reservoir engineers.
- Boosted user engagement by **30%** through proof-of-concept features and iterative prototyping.

Sophos Technologies | Senior Software Engineer 2 | May 2022 - Aug 2023

- Reduced **CI/CD** onboarding time by **50%** by creating **GitHub Actions reusable workflows** and a **Python-based** GitHub App to manage self-hosted runners.
- Integrated SonarQube and BlackDuck APIs into **CI** pipelines, enforcing code quality and security standards.

Microsoft Corporation (via Affirmed Networks acquisition) | Software Engineer 2 | Jul 2019 - Apr 2022

- Led a 4-member team to build **Python microservices (Flask, FastAPI, Quart)** on **Kubernetes, automation frameworks, and tools**, enabling development teams to meet deadlines **50% faster**.
- Reduced manual effort by 70% through **Python** frameworks with **meta-programming, decorators, threading, OOP** concepts and **SOLID** principles.
- Developed a full-stack PCAP analysis tool (**Python, Flask, ReactJS**) to assist sales teams.

Sandvine Technologies | Senior Software Developer | Nov 2017 - Jul 2019

- Built a data analytics dashboard (**Python**, **Flask**, InfluxDB, AngularJS) to visualize product performance, reducing analysis time by **30%**.
- Enhanced **Python** automation framework using **pytest**, **meta-programming**, and **CI/CD** integration.

Oracle IDC | Senior Member of Technical Staff | Mar 2015 - Nov 2017

- Optimized in-memory database (COMCOL) modules using **C++** and designed **Puppet** modules for automated database replication.
- Acted as **Scrum Master** for **Agile**/Kanban teams.

Relecura (INDUS TechInnovations) | Senior Systems Engineer | Dec 2013 - Jul 2014

- Built **Java** modules to mine patent data from **XML** and PDF files and load into **MySQL**.

Thomson Reuters | Technical Lead | Mar 2008 - Dec 2013

- Modernized reporting tools (**PL/SQL**, **Oracle**, EJB), cutting runtime from **3 days to under 1 hour**.
- Developed **Java** FX desktop app and **PL/SQL** routines for data validation.

Hewlett-Packard | Systems Software Engineer | May 2006 - Jan 2008

- Enhanced **C++** modules for HP OpenView's Fault and Trouble Management and Microsoft SPI products.

Thomson Financial | Software Engineer | Feb 2005 - May 2006

- Developed financial securities data feeds (**PL/SQL**, Perl) and maintained **C**-based backend modules.

Education

- Bachelor of Engineering (Computer Science), Dayananda Sagar College of Engineering, Bangalore - 2004
- Diploma (Computer Science & Engineering), K.I.E.T. Polytechnic, Bangalore - 2000

Awards and Recognition

- Microsoft/Affirmed Spot Awards (2020 - 2021) – 6 times
- Sandvine iPerfRobo Award (2019)
- Oracle Special Recognition Award (2015)
- Thomson Reuters Spot Awards (2009)

Additional Links

- LinkedIn: <https://www.linkedin.com/in/icgowtham>
 - GitHub: <https://www.github.com/icgowtham>
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