

# Ishwarachandra Gowtham

📍 Girinagar, Bangalore, India | ✉ [ic.gowtham@gmail.com](mailto:ic.gowtham@gmail.com) | ☎ +91-98863-52938

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## Professional Summary

Seasoned Software Engineer with close to **20 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, Sanic, Quart)** on **Kubernetes**, 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 India | 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 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 securities data feeds (**PL/SQL**, Perl) and maintained **C**-based backend modules.

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## **Education**

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

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## **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)

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## **Additional Links**

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