Ishwarachandra Gowtham

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Professional Summary

Seasoned Software Engineer with **19+ years** of overall experience and expertise in **Python**, **Microservices**, **Cloud-Native Development (Docker, Kubernetes)**, and **DevOps**. Proven track record in:

- Designing scalable **REST API**s (**Python**, **FastAPI**, **Flask**).
- Leading **Agile** teams, optimizing **CI/CD** pipelines (**GitHub Actions**, SonarQube), and reducing manual effort by 30-50%.
- Solving complex problems in product-driven environments (Microsoft, Sophos, Oracle).

Technical Skills

- **Languages:** Python, FastAPI, Flask, SQL, Shell Scripting
- **Cloud & DevOps:** Docker, Kubernetes, Azure, GitHub Actions, CI/CD Pipelines
- **Databases:** Oracle, PostgreSQL, MySQL, InfluxDB, MemSQL
- **Tools/Frameworks:** Git, Jira, Confluence, vim, gdb, Agile/Scrum

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Professional Experience

EOG Resources (via FirstLight Consulting) | Software Consultant | Nov 2023 – Present

- Developed **REST API** service layer (**Python**, **FastAPI**, Pydantic) to bridge database and UI, improving data accessibility for reservoir engineers.
- Boosted user engagement by designing PoCs for new application features.

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

- Reduced **CI/CD** onboarding time by 50% by creating reusable **GitHub Actions workflows** and a **Python**-based GitHub App to manage self-hosted runners.
- Enforced code quality gates by integrating SonarQube and BlackDuck into **CI** pipelines.

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

- Led a 4-member team to design **Python microservices** (**Flask**, Sanic, Quart) on **Kubernetes**, critical for meeting project deadlines.

- Reduced manual effort by 30% via a **Python** framework leveraging **meta-programming**, decorators, **multi-threading**, **OOP concepts** and **SOLID principles**.
- Built a full-stack PCAP analysis tool (**Python**, **Flask**, ReactJS) to accelerate application identification for sales teams.

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

- Developed a data analytics dashboard (**Python**, **Flask**, InfluxDB, AngularJS) to visualize product performance metrics.
- 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.
- Served as **Scrum Master** for Agile/Kanban teams.

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

- Designed **Java** modules to mine patent data and load into **MySQL**.

Thomson Reuters | Technical Lead | Mar 2008 - Dec 2013

- Re-engineered legacy reporting tools, cutting runtime from **3 days to <1 hour** (PL/SQL, Oracle 11g).
- Developed **Java** FX desktop apps and **PL/SQL** search routines to improve data validation.

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

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

Thomson Financial | Software Engineer | Feb 2005 - May 2006

- Built securities data feeds (PL/SQL, Perl) for investment banks and maintained **C**-based backend modules.

Education & Certifications

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

Awards:

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