Senthil Kumaran

Engineer & Open Source Technologist

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Core Skills

- Python, Go, C
- Docker / Podman, LXC/LXD, Terraform, k8s
- AWS, GCP, CloudHSM
- Django, Flask, FastAPI, gRPC
- Redis, RabbitMQ, n8n
- PostgreSQL, MySQL, SQLite, DynamoDB
- Jenkins, CI/CD, GNU toolchain

Systems & Domains

- Linux kernel internals
- Cloud native infrastructure
- Distributed systems
- DevOps automation
- IoT and Embedded

Education

M.S., BITS Pilani, 2010
B.E., Thiagarajar Engg. College, 2006

Publications

Practical LXC and LXD, Apress 2017
Open Source in Tamil, 2012

Community Leadership

Co-Chair, PyCon India 2019
Co-Chair, PySangamam 2018
Speaker, Debian/FOSS/IoT Conferences

Professional Summary

19+ years of expertise in Linux systems, distributed architectures, and open-source leadership. Apache Software Foundation PMC member and Debian Maintainer. Specialized in designing scalable cloud-native systems, driving DevOps automation, and leading global teams.

Experience

Tech Lead — Linaro (Remote) — Oct'20 – Oct'25

- Founding engineer for **TuxSuite SaaS**, enabling scalable Linux Kernel, AOSP, Yocto, OE builds across **diverse combinations** of processor **architectures** and toolchains.
- Empowered key customers (Google, Qualcomm, Kernel Community) to achieve automated CI pipelines processing **2M+ builds/tests per month**.
- **Architected backend optimizations** that increased kernel build throughput by 35%.
- Led a distributed 3-member engineering team driving open source releases.
- Key projects: *TuxSuite, TuxLAVA, TuxMake, TuxRun*

Senior Consultant — Xapo (Remote) — Aug'18 – Apr'20

- Built critical Money-In microservices with AWS CloudHSM integration, enabling secure, compliant fund transactions, reducing manual intervention by 100%.
- Containerized 12+ payment connectors using Jenkins CI/CD, boosting deployment speed and reliability by 30%.
- Delivered Notary service on AWS Lambda for secure digital signatures, enhancing transaction security and compliance.

Engineer — Linaro (Remote) — Oct'12 – Jul'18

- Architect for **LAVA**, enabling embedded test automation for 30+ ARM and x86 boards.
- Maintained Debian packages and CI pipelines.
- Drove collaboration across Linux Kernel community and Linaro ecosystems.

Earlier Experience

Senior Manager, Bank of America (2011–2012)
Led 5-member analytics team; reduced reporting time by 60%.

Software Engineer, CollabNet (2007–2010)
Youngest Apache Subversion committer; authored core features.

Developer, SpikeSource/Nokia (2006–2011)
Contributed to MeeGo SDK and Subversion integrations.

Open Source Contributions

- PMC Member, Apache Software Foundation (Subversion)
- Debian Maintainer – Django modules, LAVA packages
- TuxSuite - Active contributor to kernel build and validation automation ecosystems