

Achu Pradeep

Linux DevOps Engineer · AI Agent Developer · Algorithmic-Trading Systems · RHCSA / RHCE

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SUMMARY

RHCSA/RHCE-certified Linux engineer with **4+ years** across IT/server administration, networking, and security — now designing and shipping **AI-agent pipelines** (CrewAI) and **24/7 algorithmic-trading platforms** (FastAPI/React, OANDA/MT5), plus a self-hosted SOC for agentless vulnerability auditing. I bridge classic infrastructure with autonomous automation, owning systems end-to-end from Linux to live dashboards. Seeking **Linux DevOps, SRE, AI Infrastructure, or Security Operations** roles.

WORK EXPERIENCE

DevOps Engineer — PanApps Inc.

Current

- Manage Linux server infrastructure, Apache/NiFi clusters, and Docker deployments across enterprise clients.
- Implement CI/CD pipelines with Jenkins and Ansible for automated application deployment.
- Configure Zabbix monitoring, Wazuh SIEM, and fail2ban for security operations and compliance.

System Administrator — Leadership Domestic Workers Service Center

Dec 2021 – Apr 2023

- Installed, configured, and maintained Windows Server 2016 and Linux-based infrastructure.
- Configured LAN/WAN networks, firewalls, and secure connections for government integrations (MOHRE, ICA).
- Administered attendance/access-control systems, IP telephony, mail server, and company website; supported 100+ end users.

Linux System Administrator — IPSR Solutions Ltd

6-month contract

- Administered Linux servers — kernel upgrades, firewall, SELinux, LDAP.
- Configured Apache, SAMBA, NFS, FTP, iSCSI; remote support via SSH; scheduled backups and monitoring.

Network Administrator — Ravis Agencies

Jun 2014 – Jul 2017 (Part-Time)

- Led LAN/WAN establishment and implementation; installed and configured operating systems.
- Optimized system security and performance; scheduled backups; implemented IT policies.

TECHNICAL SKILLS

Linux & Systems: RHEL, CentOS, Fedora, Kali; Windows Server 2016; LVM, systemd, SELinux, cron, kernel tuning

Networking & Security: TCP/IP, DNS, DHCP, iptables/nftables, LDAP, OpenVPN, fail2ban; Wazuh SIEM, OpenVAS/GVM, ClamAV, ModSecurity, CVE scanning

DevOps & Cloud: Docker, Ansible, Jenkins, Apache NiFi, Git, CI/CD, AWS (S3/EC2/IAM); Zabbix, Prometheus, Grafana

AI / Agentic: Python, CrewAI, LangChain, LangGraph, DSPy, ScrapeGraphAI, Hugging Face, Streamlit; Claude, Kimi

Trading Tech: Pine Script v5, TradingView, SMC/ICT, FVG, EMA/SMA, RSI/Bollinger; OANDA, TOOBIT, CCXT, MetaTrader 5

Servers & Data: Apache, Nginx, MySQL/MariaDB, Redis, SAMBA, NFS, Postfix

PROJECTS — github.com/achupradeep3050

Hermes-USB-Portable: Portable AI agent (Nous Research hermes-agent) that runs on Windows, macOS & Linux from a USB drive with zero host installs — cross-platform launchers, multi-provider model switching (Kimi/Ollama/LM Studio/Gemini), and an Obsidian "brain" for long-term memory.

jobmind-agent: CrewAI multi-agent job-application pipeline — JD scraping, match scoring, resume tailoring, cover-letter and interview-prep generation. Streamlit UI.

VA-OpenSource-Audit: Self-hosted SOC dashboard for agentless vulnerability auditing — ClamAV management and OpenVAS/GVM scanning across Linux servers (Ansible), JWT + TOTP RBAC.

xauusd-fvg-algo: Multi-broker automated XAUUSD (gold) trading system — EMA 20/50 bias + Fair Value Gap entries, OANDA + TOOBIT, FastAPI + React dashboard + Android app, Telegram alerts.

sma_cross_scalp_bot: 24/7 automated forex/CFD scalping bot — SMA 8/21/50 crossover on M1, FastAPI + React + MariaDB, profit-booking and ATR consolidation filters.

crypto (MeanreversalRSI): Distributed crypto mean-reversion bot (BTC/ETH/DOGE) — Django/Celery/CCXT with a Windows MetaTrader 5 agent bridge and real-time dashboard.

OBStat: Order-book and market-microstructure analytics with a 1-minute Smart-Money-Concepts scalping engine for algorithmic-trading research.

my-brain: Personal AI knowledge base — an Obsidian vault with vector embeddings and semantic search for persistent agent memory.

OPEN SOURCE

Actively explore and build on leading open-source agent/AI frameworks (Nous Research hermes-agent, InsForge, TradingView-MCP), adapting them into personal trading and DevOps projects.

EDUCATION

Bachelor of Computer Applications (BCA)

Rabindranath Tagore University

B.Com with Computer Application

Kerala University

12th & 10th — CBSE

CERTIFICATIONS

- Red Hat Certified System Administrator (RHCSA) — Cert ID 170-179-113
- Red Hat Certified Engineer (RHCE)
- Certified Ethical Hacking (CEH)