

Chinmay D. Pai

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EXPERIENCE

AUG 2018– **DevOps & Security Engineer** at [FRAPPE TECHNOLOGIES PVT. LTD.](#)

- PRESENT *A seasoned DevOps Engineer responsible for system automation, and design and maintenance of core and security infrastructures.*
- Incorporated ERPNext into Reliance’s Tech Stack
 - Led training on Frappe Framework, Python, and MariaDB at Reliance, for over 60 Engineers/Consultants across two weeks.
 - Increased outbound contracts for Frappe.
 - Generated Comparative Analysis Reports of Hyperconverged Infrastructure (HCI) for LIC
 - Authored a SysBench-based distributed benchmarking system for HCI under the guidance of [Prof. Om Damani](#) (IIT-B).
 - Consolidated over 150 core-infrastructure servers across India into 8x3-server-node HCI zones.
 - Led the effort to maintain and improve internal orchestration platform for ERPNext which included:
 - Reworking the existing container platform to allow for orchestration and independent scaling using [Docker Swarm](#) and [Kubernetes](#).
 - Improving the existing VM image generation pipeline to reduce operational overhead time and streamline the deployment process by reducing redundancy.
 - Created a new and novel SSH Certificate Authority for Frappe, ensuring proper authorized and secure server access.
 - Eliminated over 30 security vulnerabilities since January 2020 and taken measures to improve in-house security, with issues pertaining to CSRF, RCE, SSRF, XSS, etc.
 - Managed over 30 self-hosted ERPNext client instances.
 - Enabled new standards for churn-analysis, site metrics, automating report generation and daily mailed summary with relevant account details.
 - Engineered an in-house server running Proxmox to reduce 75% in monthly cloud computing costs, while providing better service and uptime.
 - Authored migration manager and automated cloud version upgrade, reducing manual intervention for system upgrades by 95%.
 - Completely rewrote the File API and refactored the Email module inside the Frappe Framework.
 - Authored deployer-bot, a bot for deploying test instances on DigitalOcean through GitHub pull requests.

PERSONAL & OPEN SOURCE PROJECTS

- PYROXMOX** | A novel dynamic **Python** API for Proxmox VE. Primarily intended to be used to effortlessly spawn instances on the in-house server. git.maych.in/thunderbottom/pyroxmox
- ULTIMATE BROWSER PROJECT** | An Open-Source **Android** browser based on WebView which had over 100,000 downloads through XDA Forums and around 60,000 concurrent sessions in April 2015. github.com/thunderbottom/ultimatebrowserproject

EDUCATION

MAY 2018 **Bachelor of Engg.** COMPUTER ENGINEERING, CGPA: 7.4/10 **WIEECT, Mumbai University**

SKILLS & PROFICIENCIES

- LANGUAGES** | Python, R, Java, JavaScript, C++
- DEVOPS** | Ansible, Docker, Kubernetes, *NIX Systems, AWS, LVM, LUKS, Vagrant, Terraform, Bash, NGINX, Packer, MySQL, Redis, Jenkins, LXC/LXD, Prometheus, Grafana
- FRAMEWORKS** | Flask, Django, Frappe Framework, Vue.js, \LaTeX

EXTRACURRICULAR ACTIVITIES & INTERESTS

- Presented a talk on “SSH Security Standards and Practices at Frappe” at the ERPNext Conference 2019.
- Actively maintaining a fork of the Linux Kernel.
- Programmatically [composing music](#) using FoxDot.