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SUMMARY

I'm a generalist, computer engineer and a full-stack developer with 5+ years of industry experience building best-in-class software, specialising in backend software development with demonstrated abilities in quickly adapting to new tech-stacks, work environments & team building.

EXPERIENCE

• SwitchUp GmbH

Berlin, DE

Engineering Lead

March 2023 – Present

Sole engineer maintaining a multi-service platform to protect users from predatory energy contracts, while building a platform empowering business users to directly influence and adapt business logic by designing with configuration-driven and declarative approach.

- Took ownership of the existing Rails platform with over a dozen microservices and a monolith without onboarding or training added new features and bug fixes to meet increasing business demands, contained memory leakages and bumped availability to 99.9% uptime for 2024.
- Set up new infrastructure and applications to meet the business's growing needs, and create unified deployment pipelines for all services across multiple cloud providers and tech stacks.
- Built experimental, R&D platform for a market agnostic model working closely with the stakeholders.
- Building a no-code platform that simplifies processes so that business users can build and manage data pipelines directly for normalising and identifying business-critical information from ever-changing structured and semi-structured streams of data from external sources.

• Firesites

Remote

Consultant & Full-stack Developer

September 2022 – October 2023

Collaborated with startups and large enterprises to architect systems and design no-code software solutions tailored to business needs.

- Provided ad-hoc support for production and scalability challenges, including setting up disaster recovery plans.
- Conducted security audits and implemented solutions for open-source and private projects.
- Delivered technical training sessions on Python, Frappe, and system architecture to upskill engineering teams.
- Led technical hiring interviews to assess engineering talent aligned with project goals and technical standards.

• Frappe Technologies Pvt Ltd

Mumbai, IN

Engineering Lead

June 2019 – August 2022

Built the world's best fully open source ERP - ERPNext, Frappe Framework, a suite of deployment & cloud tools through 600+ pull requests & 400+ PR reviews and various team building initiatives.

- Maintained, refactored, designed & built features to improve the core tech stack's stability, security, and performance, which powers several companies with revenues over \$500M.
- Engineered a [managed hosting platform](#) to 4k+ production sites with two colleagues in under a year.
- Developed Frappe Cloud's easy deployment CLIs, dashboards, and Disaster Recovery system and improved the homegrown billing system.
- Led the development of and maintenance of the Bench CLI, the easy install script, and the server setup playbooks for multiple distros - which led to 10k+ installs each month.
- Led the development of a Python Query Builder that became the standard for writing database queries in the Frappe community and reduced raw query usage by 25% in less than a year of adoption.
- Performed L2 support that consisted of debugging, site management, and delivering feature requests.
- Mentored junior (under the GitHub Externship program[[ama](#)][[conf](#)]) & mid-level engineers with career path guidance and long-term projects (duration over 1 year).
- Interviewed 30+ candidates for hiring developers at various levels, evaluated 100+ candidates and wrote a hiring test & guide in use for 3 years and counting.
- Partook in community conferences & acted as the Community Manager providing technical and functional support.

KEY PROJECTS

- **ToolBox**: Automated SQL tuning & site maintenance for E-commerce & other highly dynamic sites based on Frappe & ERPNext.
- **Sheets**: Supercharging data pipelines with online spreadsheets & ERPNext.
- **Frappe Framework**: Core maintainer for the open-source full-stack, batteries-included web framework to build business apps quickly.
- **ERPNext**: Maintained CI pipelines, packaging & dependencies and security fixes for 4 major releases.
- **Frappe Cloud**: Owned, managed, and ran multiple verticals for the managed (open-source) Cloud Hosting for Frappe Apps that serves 10k+ sites.
- **Bench CLI**: Complete ownership of core infrastructure management CLI of Frappe & ERPNext Deployments.
- **Skin Cancer Detection & Classification**: Detect Melanoma from your Mobile Phone: R&D project using applications of ML & CV as part of BE CSE course.

Note: Titles are clickable links to the respective projects.

EDUCATION

- **Mumbai University** Mumbai, India
Bachelor of Engineering in Computer Science; CGPA: 7.7 *June 2015 – May 2019*

EXPERTISE

- **Skills**: Technical Leadership, Performance Optimization and Scalability, Debugging, Systems Programming, FOSS maintenance, Databases, Code Reviews, Automated Testing, Continuous Integration, Security
- **Technology Preferences**: Python, JavaScript, Ruby, Nix, SQL (MariaDB, MySQL, PostgreSQL, SQLite), Rust, Kotlin, Vue.js, Frappe, Redis, SocketIO, Sentry, Multi-tenant SaaS, Linux, AWS, Nix, Containers (Docker), vim, tmux
- **Interests**: [Scaling with common sense](#), being [cracked](#), Packaging, Orchestration, CI, CLIs, web scraping, building data pipelines, anything with a good UX & documentation, Sciences (majorly Physics & Computer), Mentoring & teaching, Philosophy, Simplifying complex ideas/actions, Building things, Economics, the ambiguity of async python, [_why's poignant guide to ruby](#), [rachelbythebay's blogs](#), Vue's release notes, $sql \geq 92$, solving social & educational problems, History