Marica Dsouza

https://github.com/marination

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EDUCATION

St.Francis Institute of Technology　　　　　　　　　　　　　　　　　Mumbai, India
Bachelor of Engineering in Computer Science　　　　　　　　　　　　　　　*2015 – 2019*

EXPERIENCE

ALYF GmbH　　　　　　　　　　　　　　　　　　　　　　　　　　Berlin, Germany
Fullstack Engineer　　　　　　　　　　　　　　　　　　　　　　　*Nov 2022 - Present*

- Engineered secure banking apps integrating Open Banking APIs for seamless account linking, transaction sync, and billing management, ensuring reliable notifications and secure data exchange for businesses across Europe.
- Showcased an open-source Bank Reconciliation Tool at Frappe Conference 2023, designed and developed from scratch with a multi-panel design. Leveraged Socket.IO to enable real-time panel state updates across tabs, handling asynchronous feedback.
- Designed and developed a friendly employee check-in Kiosk with ID scanning, working time summary and automated attendance management with supporting IP restricted APIs.
- Developed high-performance API endpoints for a large fishing association, enabling the regeneration of cached responses within 0.1 seconds
- Built a project tagging tool using Nominatim's Geocoding APIs to map uploaded construction site images to projects via GPS coordinates, streamlining documentation and digitizing ground-level data."
- Designed and developed a robust Microsoft Navision integration with logging, process status feedback and page-wise syncing to support seamless initial and daily imports of 10,000 records, including products, customers, addresses, and serial numbers.
- Developed an event-driven monthly price tracker for 7,000 positions with automated invoicing, reducing price recalculation time from 8 hours to 20 minutes and streamlining pricing and billing efficiency.

Technologies: Frappe Framework, Python, SQL, Javascript, Socket.IO, Jquery, HTML, CSS, MariaDB, Git, Redis

Frappe Technologies Pvt. Ltd.　　　　　　　　　　　　　　　　　　Mumbai, India
Engineering Lead　　　　　　　　　　　　　　　　　　　　　　　*Jun 2019 - Jul 2022*

- Maintainer of ERPNext and (less often) Frappe Framework, the world's leading fully Open Source projects on Github
- Reviewed over 500 pull requests as a maintainer across multiple projects
- Keynote speaker at ERPNext Conference 2021, showcasing the E-commerce refactor with over 1k live attendees and 4k views
- Leadership, design, development and maintenance of E-commerce, Manufacturing, Stock and Quality modules
- Refactored the entire E-commerce platform including design, UI, UX and APIs that powers multiple businesses with revenues over 1 Million USD
- Optimized the Bill of Materials graph updation algorithm to handle the load of 400K BOMs as opposed to the previous capacity of 20k Bill of Materials
- L2 support for customer issues in high-volume modules including debugging, data correction, deployments, etc.

Technologies: Frappe Framework, Python, SQL, Javascript, Jquery, HTML, CSS, MariaDB, Git, Redis, Pandas

PROJECTS

- **Road Sign Detection and Recognition**: A Flask application that performs real-time detection and recognition of crucial Indian road signs by preprocessing and segmentation of frames followed by classification using a Convoluted Neural Network.
- **Webshop**: A simple, light and responsive Webshop including filters, search, product pages, variant selectors, etc.

PROGRAMMING SKILLS

- **Languages**: Python, SQL, Javascript, Typescript, HTML, CSS

- **Technologies**: React, TailwindCSS, Flask, Git, Cypress, Frappe Framework, Redis, Svelte, Supabase, Eleventy, OpenCV, MariaDB, SQLite, SQLAlchemy, Google Firebase, Figma, Github Actions