

YASH CHAUBEY

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PROFESSIONAL SUMMARY

Backend-focused Software Development Engineer with 2+ years of experience building scalable APIs, microservices, and ERP modules. Proficient in Python and JavaScript with working knowledge of Java and OOP design principles. Experienced with large-scale codebases, cross-functional agile teams, and full development lifecycle from requirement analysis to production deployment. Passionate about clean, testable code and continuous improvement in fast-paced startup environments.

TECHNICAL SKILLS

Languages: Python (Expert), JavaScript (Expert), Java (Familiar), Bash, SQL, C/C++
Backend & APIs: REST APIs, Flask, Django, Frappe Framework, ERPNext, Microservices, Frappe Hooks
Frontend: React.js, Next.js, Three.js, Tailwind CSS, Jinja
Cloud & DevOps: Docker, AWS, Linode, Redis, Firebase, Linux/Ubuntu
Data & Tools: MySQL, MongoDB, Power BI, Git, LAMPP Stack
Practices: OOP, Data Structures & Algorithms, Unit Testing, Code Review, Agile/Scrum

EXPERIENCE

Software Development Engineer

Apr 2024 – Present

Mugen System Design L.L.C

- Designed and developed scalable RESTful APIs and Frappe-native endpoints for real-time data exchange across high-volume ERP modules, serving thousands of daily transactions.
- Led end-to-end development of POS and Project Management modules integrated with a Next.js frontend, owning the full lifecycle from requirement analysis to production deployment.
- Built modular Frappe-based microservices extending ERPNext functionality without modifying core — improving maintainability and enabling independent scaling of business units.
- Optimized backend performance by refactoring SQL queries and restructuring DocType relationships, reducing query load and improving data access speed.
- Integrated third-party payment gateways and logistics APIs using Frappe hooks, enabling automated workflows that reduced manual operations.
- Applied OOP principles and software engineering best practices; reviewed codebase contributions and mentored developers on ERPNext architecture patterns.
- Conducted UAT sessions with clients, iterating on feedback to deliver high-quality solutions within SLA standards.

Software Development Intern

Aug 2023 – Jan 2024

Mugen System Design L.L.C

- Built and secured REST APIs with robust validation logic, deployed for ERP-level integrations across cross-functional teams.
- Created dynamic print formats using Jinja, JavaScript, and HTML within the Frappe framework, improving client-facing document generation.
- Wrote unit tests using Python's `unittest` module tailored for Frappe workflows, improving code reliability and regression coverage.
- Restructured DocTypes for normalized schema design and faster data access; optimized backend logic to reduce server load.
- Participated in agile sprints, daily stand-ups, and planning sessions; documented custom modules for clients and internal teams.

OPEN SOURCE CONTRIBUTIONS

ERPNext (frappe/erpnext) | PR #48942 | Python, SQL, Frappe Framework

Oct 2025

- Contributed a merged performance fix to the ERPNext open-source project (33k+ stars), optimizing the `update_company_current_month_sales` function by replacing a `DATE_FORMAT()` call in the SQL WHERE clause with efficient date-range filtering.
- Used parameterized queries with `get_first_day()` and `add_months()` utilities, eliminating a full-table function scan and improving query reliability and security. Backported to versions 14 and 15.

PROJECTS

POS System | *Next.js, ERPNext, Redis, Frappe*

- Built a full-featured Point of Sale system with a Next.js frontend seamlessly integrated with a custom ERPNext backend, enabling real-time inventory sync, invoicing, and payment processing.
- Designed Frappe DocTypes and REST endpoints to support multi-register POS sessions, receipt printing, and end-of-day reconciliation workflows.
- Optimized API response times for high-frequency transaction calls through query caching with Redis and efficient DocType schema design.

Warehouse Allocation Engine | *FastAPI, Next.js, PostgreSQL*

- Architected a full-stack warehouse allocation platform replacing manual stock routing with an automated, multi-strategy engine.
- Built a smart warehouse scoring algorithm weighing stock availability (40%), warehouse priority (30%), fulfillment speed (20%), and customer proximity (10%) to select the optimal warehouse per order.
- Implemented distance-based allocation using Haversine formula, address-based shipment grouping, and real-time order tracking as isolated service-layer modules.
- Designed 20+ REST API endpoints across tracking, warehouse selection, and shipment grouping; exposed a typed TypeScript client for the Next.js frontend.
- Extended PostgreSQL schema with new tables and geolocation fields via SQL migrations.

3D Jewellery E-Commerce Web App | *React.js, Three.js, Node.js*

- Engineered a fully interactive 3D e-commerce experience with advanced shopping features and performance-optimized rendering.
- Implemented a scalable Node.js backend with RESTful APIs handling product catalog, cart, and order management with clean separation of concerns.

AI/ML Acceleration | *Research Paper — International Conference* | *Apple Core ML*

- Explored AI/ML model performance on Apple Neural Engine (ANE) for image recognition, NLP, and speech processing.
- Benchmarked ANE against CPU/GPU baselines, achieving significant speed and efficiency improvements; findings presented at an international conference.

EDUCATION

Jai Hind College (Autonomous), Mumbai University

B.Sc in Information Technology

Sep 2021 – Apr 2024

CGPA: 3.16 / 4.00