

VIKAS MISHRA

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EXPERIENCE

Stacksync (YC 2024) | Forward Deployed Engineer San Francisco, CA, USA | May 2026 - Present

- Owned customer integrations from technical discovery through production deployment, translating complex data migration, cleansing, enrichment, and synchronization requirements into scalable integration architectures.
- Designed customer-specific workflows for multi-million-record datasets, resolving schema mismatches, API limitations, duplicate records, and cross-system dependencies to support reliable production usage.
- Diagnosed integration failures and data-consistency issues across customer environments, delivering fixes that reduced manual migration and reconciliation effort.

Office of Water Programs | Full Stack Developer Sacramento, CA, USA | May 2024 - May 2026

- Eliminated frontend load bottlenecks by migrating to **Vite** with route-level **code-splitting and lazy loading**, reducing initial bundle size by **50–60%** and improving time-to-interactive for government stakeholders.
- Led full-stack development of a **Stormwater Analytics Platform (React, TypeScript, FastAPI, Pandas)** delivering interactive contamination visualizations and translating complex environmental datasets into actionable insights for research engineers.
- Engineered **multi-service Docker environments** with Nginx as the reverse proxy, ensuring reproducible builds across environments and eliminating environment-specific defects across development teams.
- Abstracted the frontend data-fetching layer by designing a reusable **TanStack Query hook library**, standardizing caching, retry logic, and error propagation across all API boundaries eliminating per-component boilerplate.
- Standardized a **team-wide AI-assisted development workflow** using multi-agent task decomposition, reusable prompt hooks, and structured markdown agent specifications, improving feature delivery throughput by ~30% and reducing onboarding friction.
- Implemented **CI/CD automation** with Bitbucket Pipelines and **Playwright E2E** tests, reducing environment inconsistencies and cutting post-deploy defects by 30%, measured by post-release bug ticket reduction.
- Architected an **automated ETL pipeline** eliminating a 30-minute manual ingestion workflow (reduced to **under 40 seconds**); re-engineered SQL report generation by replacing an $O(n^2)$ upsert strategy with a drop-replace-and-pre-join approach, cutting query execution from **80 minutes to under 5 seconds** on 100K+ record datasets.

Tata Consultancy Services | Backend Developer India | Jun 2019 - Oct 2022

- Designed a high-throughput event-driven ingestion pipeline using **JAVA, Spring Boot** and **RabbitMQ** to asynchronously process **10,000+ daily SAP IDocs**, enabling reliable large-volume enterprise data analytics.
- Built a configurable rules engine that detected recurring system failures in real time, automatically triggered self-healing recovery scripts, and resolved known error patterns without human intervention eliminating an entire category of manual operational toil.
- Improved API and database performance by **60–75%** by diagnosing and resolving **Hibernate N+1 query issues**, implementing JPA batch processing, and optimizing database indexing strategies.
- Architected a centralized **API Gateway** using Spring Cloud Gateway and Netflix Eureka, consolidating inter-service communication, enabling service discovery, and providing a unified layer for routing and load balancing across distributed microservices.
- Optimized enterprise monitoring dashboards by replacing sequential data-fetching with **parallelized API calls** across microservices, significantly reducing dashboard load time and delivering **near real-time operational analytics**.

EDUCATION

Master of Computer Science	California State University Sacramento (GPA: 3.85)	Aug 2022 - Dec 2024
Master of Computer Application	Medicaps University, India (GPA: 3.4)	Aug 2017 - May 2019

SKILLS

Database	MongoDB, MySQL, SQLite, Neo4J, PostgreSQL
DevOps	Docker, Nginx, Bitbucket Pipelines, Jenkins, Playwright (E2E)
Languages	Java 17+, JavaScript (ES6+), TypeScript, Python, HTML5, CSS/SASS, SQL
Frameworks	Spring Boot, React, Redux, Next.js, Tailwind CSS, Fast API, Selenium, JDBC, JPA/Hibernate, Tanstack Query